



OWNER'S MANUAL



Star

XV250X(C)

LIT-11626-21-25

2UJ-28199-1G

EAU10041

WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

YAMAHA

LIT-CALIF-65-01

Congratulations on your purchase of the Yamaha XV250X(C). This model is the result of Yamaha's vast experience in the production of fine sporting, touring, and pacesetting racing machines. It represents the high degree of craftsmanship and reliability that have made Yamaha a leader in these fields.



This manual will give you an understanding of the operation, inspection, and basic maintenance of this motorcycle. If you have any questions concerning the operation or maintenance of your motorcycle, please consult a Yamaha dealer.

The design and manufacture of this Yamaha motorcycle fully comply with the emissions standards for clean air applicable at the date of manufacture. Yamaha has met these standards without reducing the performance or economy of operation of the motorcycle. To maintain these high standards, it is important that you and your Yamaha dealer pay close attention to the recommended maintenance schedules and operating instructions contained within this manual.

IMPORTANT MANUAL INFORMATION

EAU10131

Particularly important information is distinguished in this manual by the following notations:

| | |
|---|--|
|  | The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! |
|  WARNING | Failure to follow WARNING instructions could result in severe injury or death to the motorcycle operator, a bystander or a person inspecting or repairing the motorcycle. |
| CAUTION: | A CAUTION indicates special precautions that must be taken to avoid damage to the motorcycle. |
| NOTE: | A NOTE provides key information to make procedures easier or clearer. |

NOTE:

- This manual should be considered a permanent part of this motorcycle and should remain with it even if the motorcycle is subsequently sold.
- Yamaha continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your motorcycle and this manual. If you have any questions concerning this manual, please consult your Yamaha dealer.

EWA10010

WARNING

PLEASE READ THIS MANUAL AND THE “YOU AND YOUR MOTORCYCLE: RIDING TIPS” BOOKLET CAREFULLY AND COMPLETELY BEFORE OPERATING THIS MOTORCYCLE. DO NOT ATTEMPT TO OPERATE THIS MOTORCYCLE UNTIL YOU HAVE ATTAINED ADEQUATE KNOWLEDGE OF ITS CONTROLS AND OPERATING FEATURES

IMPORTANT MANUAL INFORMATION

AND UNTIL YOU HAVE BEEN TRAINED IN SAFE AND PROPER RIDING TECHNIQUES. REGULAR INSPECTIONS AND CAREFUL MAINTENANCE, ALONG WITH GOOD RIDING SKILLS, WILL ENSURE THAT YOU SAFELY ENJOY THE CAPABILITIES AND THE RELIABILITY OF THIS MOTORCYCLE.

*Product and specifications are subject to change without notice.

IMPORTANT MANUAL INFORMATION

EAU10192

AFFIX DEALER

LABEL HERE

**XV250X(C)
OWNER'S MANUAL
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EAU10251

MOTORCYCLES ARE SINGLE TRACK VEHICLES. THEIR SAFE USE AND OPERATION ARE DEPENDENT UPON THE USE OF PROPER RIDING TECHNIQUES AS WELL AS THE EXPERTISE OF THE OPERATOR. EVERY OPERATOR SHOULD KNOW THE FOLLOWING REQUIREMENTS BEFORE RIDING THIS MOTORCYCLE.

HE OR SHE SHOULD:

- OBTAIN THOROUGH INSTRUCTIONS FROM A COMPETENT SOURCE ON ALL ASPECTS OF MOTORCYCLE OPERATION.
- OBSERVE THE WARNINGS AND MAINTENANCE REQUIREMENTS IN THE OWNER'S MANUAL.
- OBTAIN QUALIFIED TRAINING IN SAFE AND PROPER RIDING TECHNIQUES.
- OBTAIN PROFESSIONAL TECHNICAL SERVICE AS INDICATED BY THE OWNER'S MANUAL

AND/OR WHEN MADE NECESSARY BY MECHANICAL CONDITIONS.

Safe riding

- Always make pre-operation checks. Careful checks may help prevent an accident.
- This motorcycle is designed to carry the operator and a passenger.
- The failure of motorists to detect and recognize motorcycles in traffic is the predominating cause of automobile/motorcycle accidents. Many accidents have been caused by an automobile driver who did not see the motorcycle. Making yourself conspicuous appears to be very effective in reducing the chance of this type of accident.

Therefore:

- Wear a brightly colored jacket.
- Use extra caution when approaching and passing through intersections, since intersections are the most likely places for motorcycle accidents to occur.

- Ride where other motorists can see you. Avoid riding in another motorist's blind spot.
- Many motorcycle accidents involve inexperienced operators. In fact, many operators who have been involved in accidents do not even have a current motorcycle license.
- Make sure that you are qualified and that you only lend your motorcycle to other qualified operators.
- Know your skills and limits. Staying within your limits may help you to avoid an accident.
- We recommend that you practice riding your motorcycle where there is no traffic until you have become thoroughly familiar with the motorcycle and all of its controls.
- Many motorcycle accidents have been caused by error of the motorcycle operator. A typical error made by the operator is veering

SAFETY INFORMATION

1

wide on a turn due to EXCESSIVE SPEED or undercornering (insufficient lean angle for the speed).

- Always obey the speed limit and never travel faster than warranted by road and traffic conditions.
- Always signal before turning or changing lanes. Make sure that other motorists can see you.
- The posture of the operator and passenger is important for proper control.
 - The operator should keep both hands on the handlebar and both feet on the operator footrests during operation to maintain control of the motorcycle.
 - The passenger should always hold onto the operator, seat strap, or grab bar, if equipped, with both hands and keep both feet on the passenger footrests.
 - Never carry a passenger unless he or she can firmly place both feet on the passenger footrests.
- Never ride under the influence of alcohol or other drugs.

- This motorcycle is designed for on-road use only, therefore, it is not suitable for off-road use.

Protective apparel

The majority of fatalities from motorcycle accidents are the result of head injuries. The use of a safety helmet is the single most critical factor in the prevention or reduction of head injuries.

- Always wear an approved helmet.
- Wear a face shield or goggles. Wind in your unprotected eyes could contribute to an impairment of vision which could delay seeing a hazard.
- The use of a jacket, heavy boots, trousers, gloves, etc., is effective in preventing or reducing abrasions or lacerations.
- Never wear loose-fitting clothes, otherwise they could catch on the control levers, footrests, or wheels and cause injury or an accident.
- Never touch the engine or exhaust system during or after operation. They become very hot and can

cause burns. Always wear protective clothing that covers your legs, ankles, and feet.

- Passengers should also observe the precautions mentioned above.

Modifications

Modifications made to this motorcycle not approved by Yamaha, or the removal of original equipment, may render the motorcycle unsafe for use and may cause severe personal injury. Modifications may also make your motorcycle illegal to use.

Loading and accessories

Adding accessories or cargo to your motorcycle can adversely affect stability and handling if the weight distribution of the motorcycle is changed. To avoid the possibility of an accident, use extreme caution when adding cargo or accessories to your motorcycle. Use extra care when riding a motorcycle that has added cargo or accessories. Here are some general guidelines to follow if loading cargo or adding accessories to your motorcycle:



Loading

The total weight of the operator, passenger, accessories and cargo must not exceed the maximum load limit.

Maximum load:

XV250X 196 kg (432 lb)

XV250XC 195 kg (430 lb)

When loading within this weight limit, keep the following in mind:

- Cargo and accessory weight should be kept as low and close to the motorcycle as possible. Make sure to distribute the weight as evenly as possible on both sides of the motorcycle to minimize imbalance or instability.
- Shifting weights can create a sudden imbalance. Make sure that accessories and cargo are securely attached to the motorcycle before riding. Check accessory mounts and cargo restraints frequently.
- Never attach any large or heavy items to the handlebar, front fork, or front fender. These items, including such cargo as sleeping

bags, duffel bags, or tents, can create unstable handling or slow steering response.

Accessories

Genuine Yamaha accessories have been specifically designed for use on this motorcycle. Since Yamaha cannot test all other accessories that may be available, you must personally be responsible for the proper selection, installation and use of non-Yamaha accessories. Use extreme caution when selecting and installing any accessories.

Keep the following guidelines in mind, as well as those provided under “Loading” when mounting accessories.

- Never install accessories or carry cargo that would impair the performance of your motorcycle. Carefully inspect the accessory before using it to make sure that it does not in any way reduce ground clearance or cornering clearance,

limit suspension travel, steering travel or control operation, or obscure lights or reflectors.

- Accessories fitted to the handlebar or the front fork area can create instability due to improper weight distribution or aerodynamic changes. If accessories are added to the handlebar or front fork area, they must be as lightweight as possible and should be kept to a minimum.
- Bulky or large accessories may seriously affect the stability of the motorcycle due to aerodynamic effects. Wind may attempt to lift the motorcycle, or the motorcycle may become unstable in cross winds. These accessories may also cause instability when passing or being passed by large vehicles.
- Certain accessories can displace the operator from his or her normal riding position. This improper position limits the freedom of movement of the opera-

SAFETY INFORMATION

1

tor and may limit control ability, therefore, such accessories are not recommended.

- Use caution when adding electrical accessories. If electrical accessories exceed the capacity of the motorcycle's electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power.

Gasoline and exhaust gas

- GASOLINE IS HIGHLY FLAMMABLE:
 - Always turn the engine off when refueling.
 - Take care not to spill any gasoline on the engine or exhaust system when refueling.
 - Never refuel while smoking or in the vicinity of an open flame.
- Never start the engine or let it run for any length of time in a closed area. The exhaust fumes are poisonous and may cause loss of consciousness and death within a short time. Always operate your motorcycle in an area that has adequate ventilation.

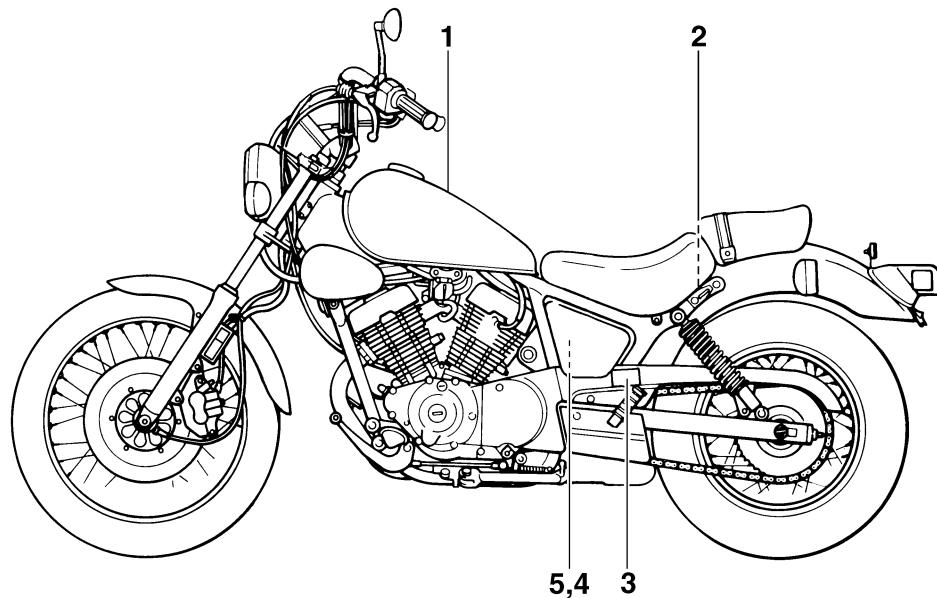
- Always turn the engine off before leaving the motorcycle unattended and remove the key from the main switch. When parking the motorcycle, note the following:
 - The engine and exhaust system may be hot, therefore, park the motorcycle in a place where pedestrians or children are not likely to touch these hot areas.
 - Do not park the motorcycle on a slope or soft ground, otherwise it may fall over.
 - Do not park the motorcycle near a flammable source (e.g. a kerosene heater, or near an open flame), otherwise it could catch fire.
- When transporting the motorcycle in another vehicle, make sure that it is kept upright and that the fuel cock is turned to "ON" or "RES" (for vacuum type) / "OFF" (for manual type). If it should lean over, gasoline may leak out of the carburetor or fuel tank.
- If you should swallow any gasoline, inhale a lot of gasoline vapor, or allow gasoline to get into your

eyes, see your doctor immediately. If any gasoline spills on your skin or clothing, immediately wash the affected area with soap and water and change your clothes.

Location of important labels

Please read the following important labels carefully before operating this vehicle.

1



SAFETY INFORMATION

1

1

WARNING

- BEFORE YOU OPERATE THIS VEHICLE, READ THE OWNER'S MANUAL AND ALL LABELS.
- ALWAYS WEAR AN APPROVED MOTORCYCLE HELMET, eye protection, and protective clothing.

5GK-2118K-00

2

CAUTION

- Read owner's manual before servicing battery.
- Electrolyte will damage metal parts or paint. If electrolyte spills, wash area with fresh water immediately.
- Be sure to connect breather hose after installing battery.

3JL-28177-A0

3

TIRE INFORMATION

Cold tire normal pressure should be set as follows.

- Up to 90 kg (198 lbs) load

FRONT : 175 kPa, {1.75 kgf/cm²}, 25psi

REAR : 200 kPa, {2.00 kgf/cm²}, 29psi

- 90 kg (198 lbs) ~ maximum load

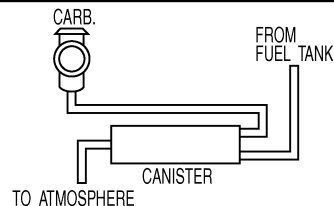
FRONT : 200 kPa, {2.00 kgf/cm²}, 29psi

REAR : 225 kPa, {2.25 kgf/cm²}, 33psi

3CK-21688-A1

4 California only

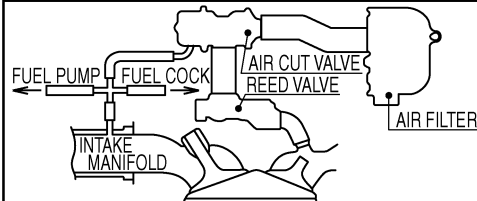
EMISSION HOSE ROUTING



4YN-21686-00

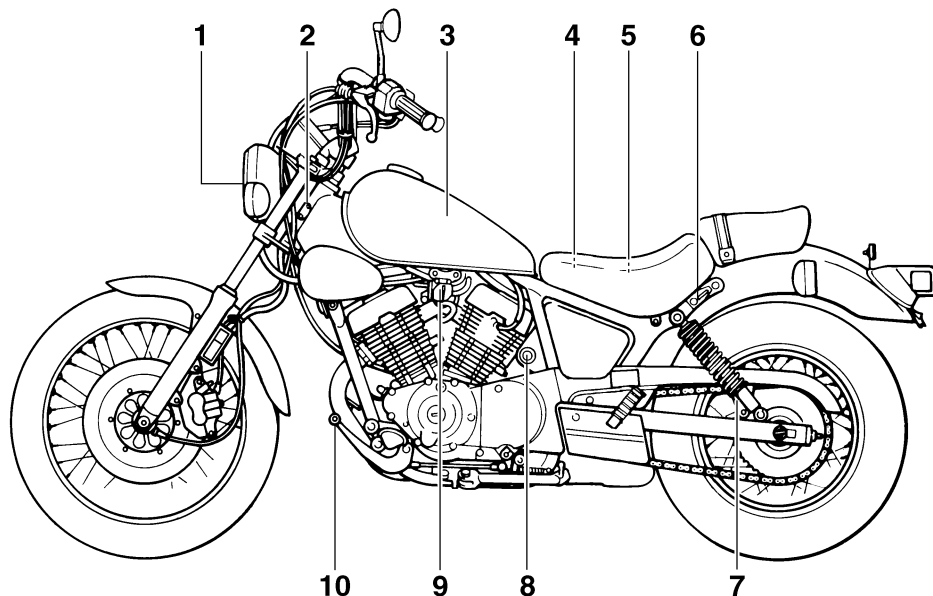
5 California only

VACUUM HOSE ROUTING



3BG-21684-A0

Left view



1. Headlight (page 6-32)

2. Steering lock (page 3-8)

3. Fuel tank (page 3-5)

4. Battery (page 6-30)

5. Fuses (page 6-32)

6. Helmet holder (page 3-9)

7. Shock absorber assembly spring preload adjusting ring (page 3-9)

8. Main switch (page 3-1)

9. Fuel cock (page 3-6)

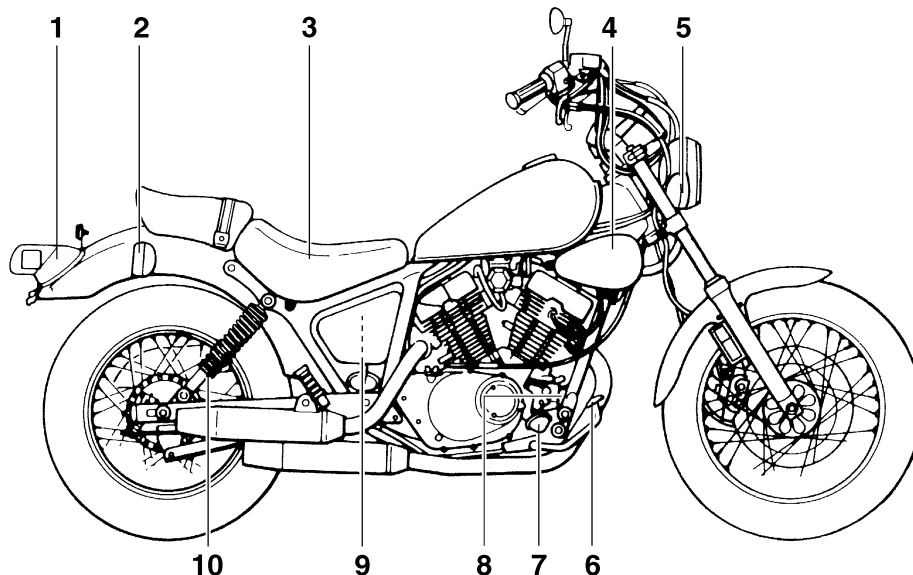
10. Shift pedal (page 3-4)

DESCRIPTION

EAU10420

Right view

2



1. Tail/brake light (page 6-34)

2. Rear turn signal lights (page 6-34)

3. Rider seat (page 3-8)

4. Air filter element (page 6-13)

5. Front turn signal/position lights (page 6-34)

6. Brake pedal (page 3-4)

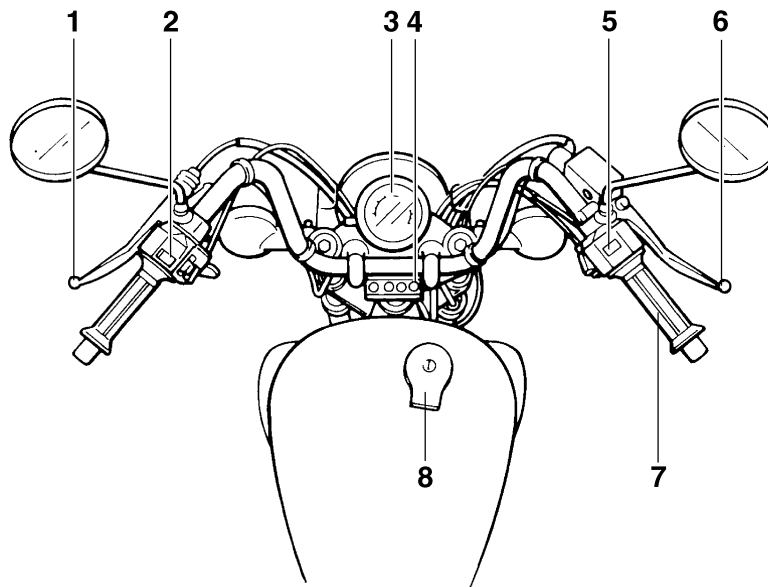
7. Footrest

8. Rear brake light switch (page 6-22)

9. Owner's tool kit (page 6-1)

10. Shock absorber assembly spring preload adjusting ring (page 3-9)

Controls and instruments

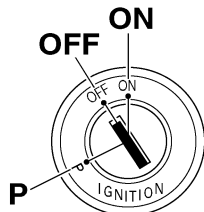


1. Clutch lever (page 3-3)
2. Left handlebar switches (page 3-2)
3. Speedometer unit (page 3-2)
4. Indicator lights (page 3-1)
5. Right handlebar switches (page 3-2)
6. Brake lever (page 3-4)
7. Throttle grip (page 6-15)
8. Fuel tank cap (page 3-5)

INSTRUMENT AND CONTROL FUNCTIONS

Main switch

EAU10450



The main switch controls the ignition and lighting systems. The various main switch positions are described below.

ON

EAU10510

All electrical systems are supplied with power, and the headlight, meter lighting, taillight and position lights come on, and the engine can be started. The key cannot be removed.

OFF

EAU10660

All electrical systems are off. The key can be removed.

P (Parking)

EAU10810

The taillight and position lights are on, but all other electrical systems are off. The key can be removed.

The key must be pushed in from the "OFF" position to be turned to "P".

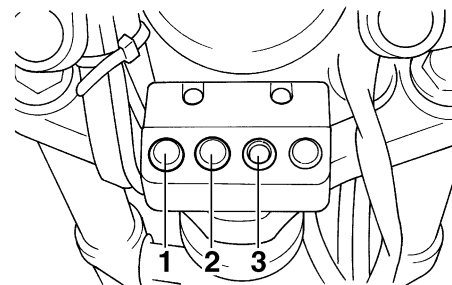
ECA11020

CAUTION:

Do not use the parking position for an extended length of time, otherwise the battery may discharge.

Indicator lights

EAU10980



1. High beam indicator light "HIGH BEAM"
2. Neutral indicator light "NEUTRAL"
3. Turn signal indicator light "TURN"

Turn signal indicator light "TURN"

EAU11040

This indicator light flashes when the turn signal switch is pushed to the left or right.

Neutral indicator light "NEUTRAL"

EAU11070

This indicator light comes on when the transmission is in the neutral position.

INSTRUMENT AND CONTROL FUNCTIONS

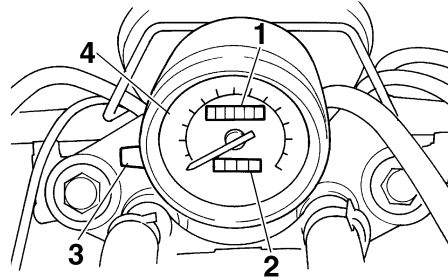
High beam indicator light “HIGH BEAM”

EAU11090

This indicator light comes on when the high beam of the headlight is switched on.

Speedometer unit

EAU11630



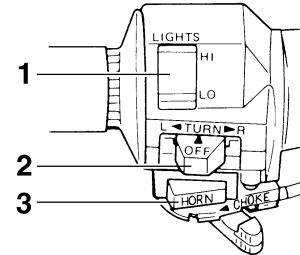
1. Odometer
2. Tripmeter
3. Tripmeter reset knob
4. Speedometer

The speedometer unit is equipped with a speedometer, an odometer and a tripmeter. The speedometer shows riding speed. The odometer shows the total distance traveled. The tripmeter shows the distance traveled since it was last set to zero with the reset knob. The tripmeter can be used to estimate the distance that can be traveled with a full tank of fuel. This information will enable you to plan future fuel stops.

Handlebar switches

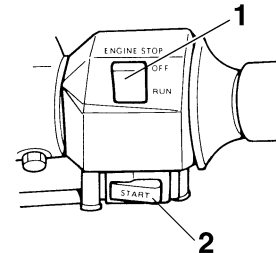
EAU12347

Left



1. Dimmer switch “LIGHTS”
2. Turn signal switch “TURN”
3. Horn switch “HORN”

Right



1. Engine stop switch “ENGINE STOP”
2. Start switch “START”

INSTRUMENT AND CONTROL FUNCTIONS

Dimmer switch “LIGHTS”

EAU12410

Set the switch to “HI” for the high beam and to “LO” for the low beam.

Turn signal switch “TURN”

EAU12440

To signal a right-hand turn, push this switch to the right. To signal a left-hand turn, push this switch to the left. When released, the switch returns to the center position. To cancel the turn signal lights, push the switch in after it has returned to the center position.

Horn switch “HORN”

EAU12510

Press this switch to sound the horn.

Engine stop switch “ENGINE STOP”

EAU12650

Set this switch to “RUN” before starting the engine. Set this switch to “OFF” to stop the engine in case of an emergency, such as when the vehicle overturns or when the throttle cable is stuck.

Start switch “START”

EAU12690

Push this switch to crank the engine with the starter.

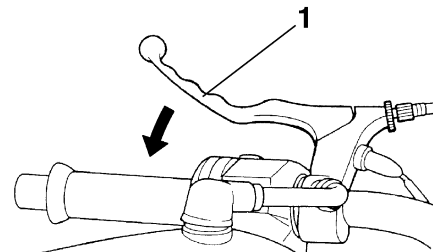
CAUTION:

See page 5-1 for starting instructions prior to starting the engine.

ECA10050

Clutch lever

EAU12820



1. Clutch lever

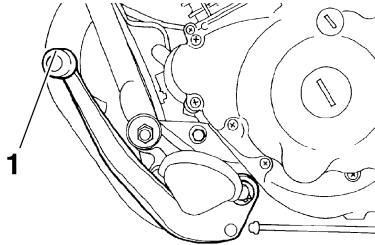
The clutch lever is located at the left handlebar grip. To disengage the clutch, pull the lever toward the handlebar grip. To engage the clutch, release the lever. The lever should be pulled rapidly and released slowly for smooth clutch operation.

The clutch lever is equipped with a clutch switch, which is part of the ignition circuit cut-off system. (See page 3-11.)

INSTRUMENT AND CONTROL FUNCTIONS

Shift pedal

EAU12870

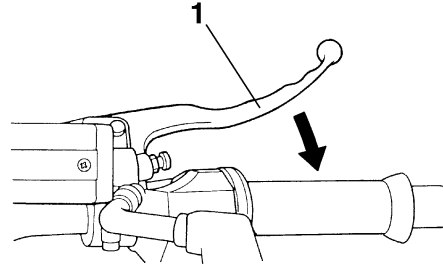


1. Shift pedal

The shift pedal is located on the left side of the engine and is used in combination with the clutch lever when shifting the gears of the 5-speed constant-mesh transmission equipped on this motorcycle.

Brake lever

EAU12890

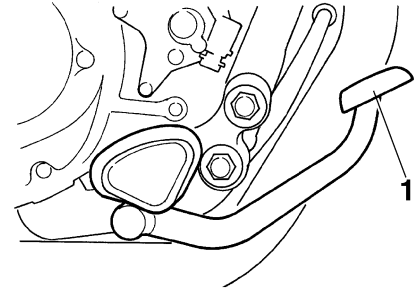


1. Brake lever

The brake lever is located at the right handlebar grip. To apply the front brake, pull the lever toward the handlebar grip.

Brake pedal

EAU12941



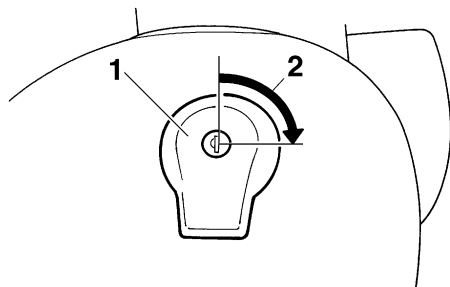
1. Brake pedal

The brake pedal is on the right side of the motorcycle. To apply the rear brake, press down on the brake pedal.

INSTRUMENT AND CONTROL FUNCTIONS

Fuel tank cap

EAU13040



1. Fuel tank cap
2. Unlock.

To open the fuel tank cap

Insert the key into the lock and turn it 1/4 turn clockwise. The lock will be released and the fuel tank cap can be opened.

To close the fuel tank cap

1. Push the fuel tank cap into position with the key inserted in the lock.
2. Turn the key counterclockwise to the original position, and then remove it.

NOTE:

The fuel tank cap cannot be closed unless the key is in the lock. In addition, the key cannot be removed if the cap is not properly closed and locked.

EWA11090

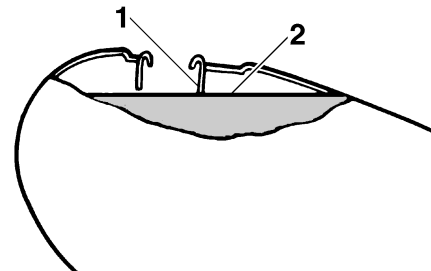


WARNING

Make sure that the fuel tank cap is properly closed before riding.

Fuel

EAU13211



1. Fuel tank filler tube
2. Fuel level

Make sure that there is sufficient fuel in the tank. Fill the fuel tank to the bottom of the filler tube as shown.

EWA10880



WARNING

- Do not overfill the fuel tank, otherwise it may overflow when the fuel warms up and expands.
- Avoid spilling fuel on the hot engine.

ECA10070

CAUTION:

Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.

EAU13300

Recommended fuel:

UNLEADED GASOLINE ONLY

Fuel tank capacity:

XV250X 9.5 L (2.51 US gal) (2.09 Imp.gal)

XV250XC 9.2 L (2.43 US gal) (2.02 Imp.gal)

Fuel reserve amount:

2.6 L (0.69 US gal) (0.57 Imp.gal)

ECA11400

CAUTION:

Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts, such as the valves and piston rings, as well as to the exhaust system.

Your Yamaha engine has been designed to use regular unleaded gasoline with a pump octane number

[(R+M)/2] of 86 or higher, or a research octane number of 91 or higher. If knocking (or pinging) occurs, use a gasoline of a different brand or premium unleaded fuel. Use of unleaded fuel will extend spark plug life and reduce maintenance costs.

Gasohol

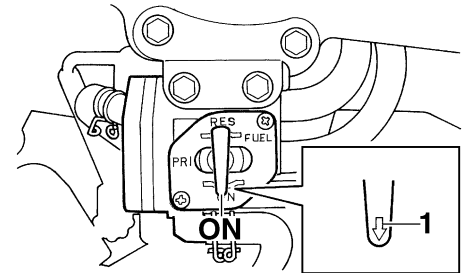
There are two types of gasohol: gasohol containing ethanol and that containing methanol. Gasohol containing ethanol can be used if the ethanol content does not exceed 10%. Gasohol containing methanol is not recommended by Yamaha because it can cause damage to the fuel system or vehicle performance problems.

EAU13581

Fuel cock

This model is equipped with a negative pressure fuel cock. The fuel cock supplies fuel from the tank to the carburetor while also filtering it.

The fuel cock lever positions are explained as follows and shown in the illustrations.

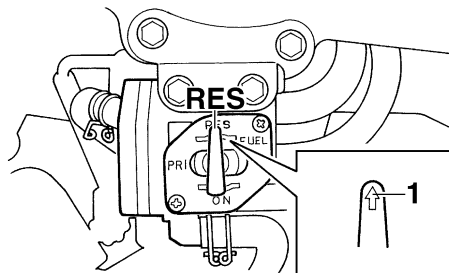
ON

1. Arrow mark positioned over "ON"

With the fuel cock lever in this position, fuel flows to the carburetor when the engine is running. Turn the fuel cock lever to this position when starting the engine and riding.

INSTRUMENT AND CONTROL FUNCTIONS

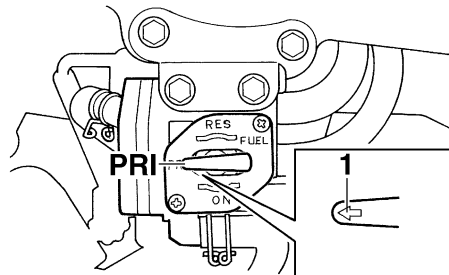
RES



1. Arrow mark positioned over "RES"

This indicates reserve. With the fuel cock lever in this position, the fuel reserve is made available. Quickly turn the fuel cock lever to this position if you run out of fuel while riding, otherwise the engine may stall and will have to be primed (see "PRI"). After turning the fuel cock lever to "RES", refuel as soon as possible and be sure to turn the fuel cock lever back to "ON"!

PRI

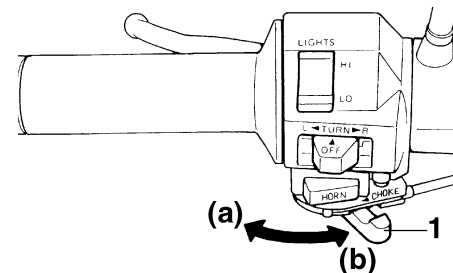


1. Arrow mark positioned over "PRI"

This indicates prime. With the fuel cock lever in this position, the engine can be "primed". Turn the fuel cock lever to this position when the engine has been allowed to run out of fuel. This sends fuel directly to the carburetor, which will make starting easier. After the engine has started, be sure to turn the lever to "ON" (or "RES" if you have not refueled yet).

Starter (choke) lever

EAU13630



1. Starter (choke) lever

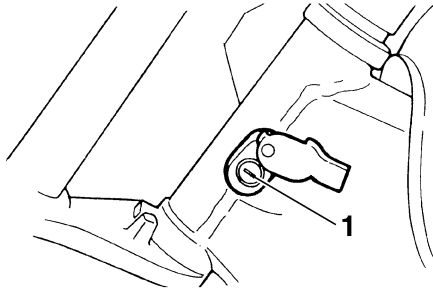
Starting a cold engine requires a richer air-fuel mixture, which is supplied by the starter (choke).

Move the lever in direction (a) to turn on the starter (choke).

Move the lever in direction (b) to turn off the starter (choke).

Steering lock

EAU13730



1. Steering lock

To lock the steering

1. Turn the handlebar all the way to the right.
2. Open the steering lock cover, and then insert the key.
3. Turn the key 1/8 turn counterclockwise, push it in while turning the handlebar slightly to the left, and then turn the key 1/8 turn clockwise.
4. Check that the steering is locked, remove the key, and then close the lock cover.

To unlock the steering

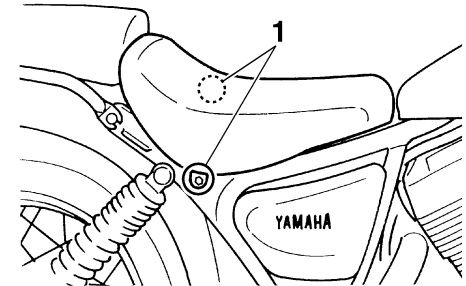
1. Open the steering lock cover, and then insert the key.
2. Push the key in, turn it 1/8 turn counterclockwise so that it moves out, and then release it.
3. Remove the key, and then close the lock cover.

Rider seat

EAU14220

To remove the rider seat

Remove the bolts, and then pull the rider seat off.



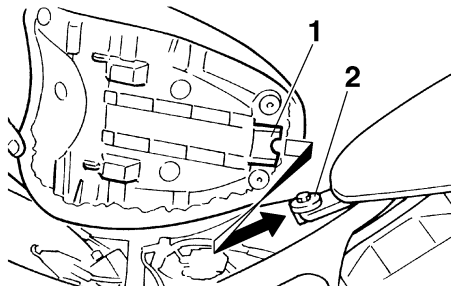
1. Bolt

To install the rider seat

1. Insert the projection on the front of the rider seat into the seat holder as shown.

INSTRUMENT AND CONTROL FUNCTIONS

3



1. Projection
2. Seat holder

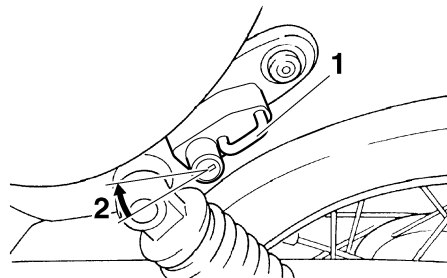
2. Place the rider seat in the original position, and then tighten the bolts.

NOTE:

Make sure that the rider seat is properly secured before riding.

Helmet holder

EAU14281



1. Helmet holder
2. Unlock.

To open the helmet holder, insert the key into the lock, and then turn the key as shown.

To lock the helmet holder, place it in the original position, and then remove the key.



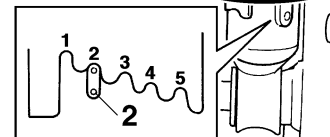
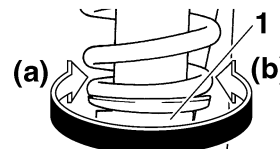
WARNING

Never ride with a helmet attached to the helmet holder, since the helmet may hit objects, causing loss of control and possibly an accident.

EWA10160

Adjusting the shock absorber assemblies

EAU14880



1. Spring preload adjusting ring
2. Position indicator

Each shock absorber assembly is equipped with a spring preload adjusting ring.

ECA10100

CAUTION:

Never attempt to turn an adjusting mechanism beyond the maximum or minimum settings.

WARNING

EWA10210

Always adjust both shock absorber assemblies equally, otherwise poor handling and loss of stability may result.

Adjust the spring preload as follows.

To increase the spring preload and thereby harden the suspension, turn the adjusting ring on each shock absorber assembly in direction (a). To decrease the spring preload and thereby soften the suspension, turn the adjusting ring on each shock absorber assembly in direction (b).

NOTE:

Align the appropriate notch in the adjusting ring with the position indicator on the shock absorber.

Spring preload setting:

Minimum (soft):

1

Standard:

2

Maximum (hard):

5

Sidestand

EAU15301

The sidestand is located on the left side of the frame. Raise the sidestand or lower it with your foot while holding the vehicle upright.

NOTE:

The built-in sidestand switch is part of the ignition circuit cut-off system, which cuts the ignition in certain situations. (See further down for an explanation of the ignition circuit cut-off system.)

EWA10240

WARNING

The vehicle must not be ridden with the sidestand down, or if the sidestand cannot be properly moved up (or does not stay up), otherwise the sidestand could contact the ground and distract the operator, resulting in a possible loss of control. Yamaha's ignition circuit cut-off system has been designed to assist the operator in fulfilling the responsibility of raising the sidestand before starting off. Therefore, check this system regularly as described

below and have a Yamaha dealer repair it if it does not function properly.

INSTRUMENT AND CONTROL FUNCTIONS

EAU15312

Ignition circuit cut-off system

The ignition circuit cut-off system (comprising the sidestand switch, clutch switch and neutral switch) has the following functions.

- It prevents starting when the transmission is in gear and the sidestand is up, but the clutch lever is not pulled.
- It prevents starting when the transmission is in gear and the clutch lever is pulled, but the sidestand is still down.
- It cuts the running engine when the transmission is in gear and the sidestand is moved down.

Periodically check the operation of the ignition circuit cut-off system according to the following procedure.

EWA10250



If a malfunction is noted, have a Yamaha dealer check the system before riding.

INSTRUMENT AND CONTROL FUNCTIONS

With the engine turned off:

1. Move the sidestand down.
2. Make sure that the engine stop switch is turned on.
3. Turn the key on.
4. Shift the transmission into the neutral position.
5. Push the start switch.

Does the engine start?

YES

NO

With the engine still running:

6. Move the sidestand up.
7. Keep the clutch lever pulled.
8. Shift the transmission into gear.
9. Move the sidestand down.

Does the engine stall?

YES

NO

After the engine has stalled:

10. Move the sidestand up.
11. Keep the clutch lever pulled.
12. Push the start switch.

Does the engine start?

YES

NO

The system is OK. **The motorcycle can be ridden.**

NOTE:

This check is most reliable if performed with a warmed-up engine.

The neutral switch may be defective.

The motorcycle should not be ridden until checked by a Yamaha dealer.

The sidestand switch may be defective.

The motorcycle should not be ridden until checked by a Yamaha dealer.

The clutch switch may be defective.

The motorcycle should not be ridden until checked by a Yamaha dealer.

PRE-OPERATION CHECKS

EAU15593

The condition of a vehicle is the owner's responsibility. Vital components can start to deteriorate quickly and unexpectedly, even if the vehicle remains unused (for example, as a result of exposure to the elements). Any damage, fluid leakage or loss of tire air pressure could have serious consequences. Therefore, it is very important, in addition to a thorough visual inspection, to check the following points before each ride.

NOTE:

Pre-operation checks should be made each time the vehicle is used. Such an inspection can be accomplished in a very short time; and the added safety it assures is more than worth the time involved.

EWA11150

4



WARNING

If any item in the Pre-operation check list is not working properly, have it inspected and repaired before operating the vehicle.

PRE-OPERATION CHECKS

EAU15605

Pre-operation check list

| ITEM | CHECKS | PAGE |
|-----------------------|---|------------------|
| Fuel | <ul style="list-style-type: none">• Check fuel level in fuel tank.• Refuel if necessary.• Check fuel line for leakage. | 3-5 |
| Engine oil | <ul style="list-style-type: none">• Check oil level in engine.• If necessary, add recommended oil to specified level.• Check vehicle for oil leakage. | 6-10 |
| Front brake | <ul style="list-style-type: none">• Check operation.• If soft or spongy, have Yamaha dealer bleed hydraulic system.• Check lever free play.• Adjust if necessary.• Check brake pads for wear.• Replace if necessary.• Check fluid level in reservoir.• If necessary, add recommended brake fluid to specified level.• Check hydraulic system for leakage. | 6-20, 6-22, 6-23 |
| Rear brake | <ul style="list-style-type: none">• Check operation.• Lubricate cable if necessary.• Check pedal free play.• Adjust if necessary. | 6-20, 6-22 |
| Clutch | <ul style="list-style-type: none">• Check operation.• Lubricate cable if necessary.• Check lever free play.• Adjust if necessary. | 6-19 |
| Throttle grip | <ul style="list-style-type: none">• Make sure that operation is smooth.• Check cable free play.• If necessary, have Yamaha dealer adjust cable free play and lubricate cable and grip housing. | 6-15, 6-27 |
| Control cables | <ul style="list-style-type: none">• Make sure that operation is smooth.• Lubricate if necessary. | 6-26 |

PRE-OPERATION CHECKS

| ITEM | CHECKS | PAGE |
|--|--|------------|
| Drive chain | <ul style="list-style-type: none"> • Check chain slack. • Adjust if necessary. • Check chain condition. • Lubricate if necessary. | 6-24, 6-26 |
| Wheels and tires | <ul style="list-style-type: none"> • Check for damage. • Check tire condition and tread depth. • Check air pressure. • Correct if necessary. | 6-16, 6-18 |
| Brake and shift pedals | <ul style="list-style-type: none"> • Make sure that operation is smooth. • Lubricate pedal pivoting points if necessary. | 6-27 |
| Brake and clutch levers | <ul style="list-style-type: none"> • Make sure that operation is smooth. • Lubricate lever pivoting points if necessary. | 6-27 |
| Sidestand | <ul style="list-style-type: none"> • Make sure that operation is smooth. • Lubricate pivot if necessary. | 6-28 |
| Chassis fasteners | <ul style="list-style-type: none"> • Make sure that all nuts, bolts and screws are properly tightened. • Tighten if necessary. | — |
| Instruments, lights, signals and switches | <ul style="list-style-type: none"> • Check operation. • Correct if necessary. | — |
| Sidestand switch | <ul style="list-style-type: none"> • Check operation of ignition circuit cut-off system. • If system is defective, have Yamaha dealer check vehicle. | 3-10 |
| Battery | <ul style="list-style-type: none"> • Check fluid level. • Fill with distilled water if necessary. | 6-30 |

OPERATION AND IMPORTANT RIDING POINTS

EAU15950

EWA10270

WARNING

- Become thoroughly familiar with all operating controls and their functions before riding. Consult a Yamaha dealer regarding any control or function that you do not thoroughly understand.
- Never start the engine or operate it in a closed area for any length of time. Exhaust fumes are poisonous, and inhaling them can cause loss of consciousness and death within a short time. Always make sure that there is adequate ventilation.
- Before starting out, make sure that the sidestand is up. If the sidestand is not raised completely, it could contact the ground and distract the operator, resulting in a possible loss of control.

EAU32620

Starting and warming up a cold engine

In order for the ignition circuit cut-off system to enable starting, one of the following conditions must be met:

- The transmission is in the neutral position.
- The transmission is in gear with the clutch lever pulled and the sidestand up.

EWA10290

WARNING

- Before starting the engine, check the function of the ignition circuit cut-off system according to the procedure described on page 3-11.
 - Never ride with the sidestand down.
1. Turn the fuel cock lever to "ON".
 2. Turn the key to "ON" and make sure that the engine stop switch is set to "RUN".
 3. Shift the transmission into the neutral position.

NOTE: _____

When the transmission is in the neutral position, the neutral indicator light should be on, otherwise have a Yamaha dealer check the electrical circuit.

4. Turn the starter (choke) on and completely close the throttle. (See page 3-7.)
5. Start the engine by pushing the start switch.

NOTE: _____

If the engine fails to start, release the start switch, wait a few seconds, and then try again. Each starting attempt should be as short as possible to preserve the battery. Do not crank the engine more than 10 seconds on any one attempt.

6. After starting the engine, move the starter (choke) back halfway.

OPERATION AND IMPORTANT RIDING POINTS

ECA11130

EAU16640

EAU16671

CAUTION:

For maximum engine life, always warm the engine up before starting off. Never accelerate hard when the engine is cold!

7. When the engine is warm, turn the starter (choke) off.

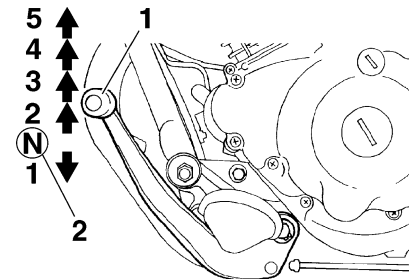
NOTE:

The engine is warm when it responds normally to the throttle with the starter (choke) turned off. To avoid the possibility of excessive exhaust emissions, never leave the starter (choke) on longer than necessary. The time necessary for starter (choke) use depends upon the ambient temperature. Temperatures above 10 °C (50 °F) require about 7 seconds of starter (choke) use and temperatures below 10 °C (50 °F) require about 35 seconds with the starter (choke) turned on, then about 2.5 minutes with the starter (choke) in the half-way position.

Starting a warm engine

Follow the same procedure as for starting a cold engine with the exception that the starter (choke) is not required when the engine is warm.

Shifting



1. Shift pedal
2. Neutral position

Shifting gears lets you control the amount of engine power available for starting off, accelerating, climbing hills, etc.

The gear positions are shown in the illustration.

NOTE:

To shift the transmission into the neutral position, press the shift pedal down repeatedly until it reaches the end of its travel, and then slightly raise it.

OPERATION AND IMPORTANT RIDING POINTS

CAUTION:

ECA10260

- **Even with the transmission in the neutral position, do not coast for long periods of time with the engine off, and do not tow the motorcycle for long distances. The transmission is properly lubricated only when the engine is running. Inadequate lubrication may damage the transmission.**
- **Always use the clutch while changing gears to avoid damaging the engine, transmission, and drive train, which are not designed to withstand the shock of forced shifting.**

To start out and accelerate

EAU16680

1. Pull the clutch lever to disengage the clutch.
2. Shift the transmission into first gear. The neutral indicator light should go out.
3. Open the throttle gradually, and at the same time, release the clutch lever slowly.

4. At the recommended shift points shown in the following table, close the throttle, and at the same time, quickly pull the clutch lever in.
5. Shift the transmission into second gear. (Make sure not to shift the transmission into the neutral position.)
6. Open the throttle part way and gradually release the clutch lever.
7. Follow the same procedure when shifting to the next higher gear.

NOTE:

Always shift gears at the recommended shift points.

EAU16700

To decelerate

1. Apply both the front and the rear brakes to slow the motorcycle.
2. Shift the transmission into first gear when the motorcycle reaches 20 km/h (12.5 mi/h). If the engine is about to stall or runs very roughly, pull the clutch lever in and use the brakes to stop the motorcycle.

3. Shift the transmission into the neutral position when the motorcycle is almost completely stopped. The neutral indicator light should come on.

EAU16720

Recommended shift points

The recommended shift points during acceleration and deceleration are shown in the table below.

Shift up points:

- 1st → 2nd: 16 km/h (9.9 mi/h)
- 2nd → 3rd: 24 km/h (14.9 mi/h)
- 3rd → 4th: 32 km/h (19.9 mi/h)
- 4th → 5th: 40 km/h (24.9 mi/h)

Shift down points:

- 5th → 4th: 20 km/h (12.5 mi/h)
- 4th → 3rd: 20 km/h (12.5 mi/h)
- 3rd → 2nd: 20 km/h (12.5 mi/h)
- 2nd → 1st: 20 km/h (12.5 mi/h)

OPERATION AND IMPORTANT RIDING POINTS

Engine break-in

EAU16841

There is never a more important period in the life of your engine than the period between 0 and 1600 km (1000 mi). For this reason, you should read the following material carefully.

Since the engine is brand new, do not put an excessive load on it for the first 1600 km (1000 mi). The various parts in the engine wear and polish themselves to the correct operating clearances. During this period, prolonged full-throttle operation or any condition that might result in engine overheating must be avoided.

EAU17021

0–1000 km (0–600 mi)

Avoid prolonged operation above 1/3 throttle.

1000–1600 km (600–1000 mi)

Avoid prolonged operation above 1/2 throttle.

CAUTION:

ECA11281

After 1000 km (600 mi) of operation, the engine oil must be changed, and the oil filter cartridge or element replaced.

1600 km (1000 mi) and beyond

The vehicle can now be operated normally.

ECA10270

CAUTION:

If any engine trouble should occur during the engine break-in period, immediately have a Yamaha dealer check the vehicle.

EAU17200

Parking

When parking, stop the engine, and then remove the key from the main switch.

EWA10310

⚠ WARNING

- Since the engine and exhaust system can become very hot, park in a place where pedestrians or children are not likely to touch them.
- Do not park on a slope or on soft ground, otherwise the vehicle may overturn.

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU17231

EAU17301

EAU17330

Safety is an obligation of the owner. Periodic inspection, adjustment and lubrication will keep your vehicle in the safest and most efficient condition possible. The most important points of motorcycle inspection, adjustment, and lubrication are explained on the following pages.

Maintenance, replacement, or repair of the emission control devices and systems may be performed by any repair establishment or individual that is certified (if applicable).

EWA10320

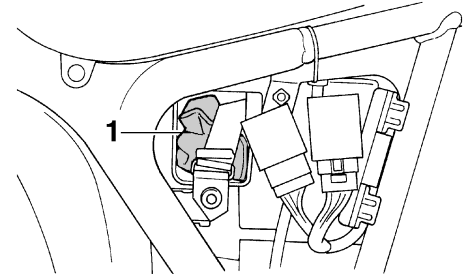
WARNING

If you are not familiar with maintenance work, have a Yamaha dealer do it for you.

PERIODIC MAINTENANCE

PROPER PERIODIC MAINTENANCE OF YOUR VEHICLE IS IMPORTANT IN ORDER TO ENJOY LONG, PLEASURABLE SERVICE. ESPECIALLY IMPORTANT ARE THE MAINTENANCE SERVICES RELATED TO EMISSIONS CONTROL. THESE CONTROLS NOT ONLY FUNCTION TO ENSURE CLEANER AIR, BUT ARE ALSO VITAL TO PROPER ENGINE OPERATION AND MAXIMUM PERFORMANCE. IN THE FOLLOWING PERIODIC MAINTENANCE CHARTS, THE SERVICES RELATED TO EMISSIONS CONTROL ARE GROUPED SEPARATELY. THESE SERVICES REQUIRE SPECIALIZED DATA, KNOWLEDGE, AND EQUIPMENT. YAMAHA DEALERS ARE TRAINED AND EQUIPPED TO PERFORM THESE PARTICULAR SERVICES.

Owner's tool kit



1. Owner's tool kit

The owner's tool kit is located behind panel A. (See page 6-8.)

The service information included in this manual and the tools provided in the owner's tool kit are intended to assist you in the performance of preventive maintenance and minor repairs. However, additional tools such as a torque wrench may be necessary to perform certain maintenance work correctly.

NOTE:

If you do not have the tools or experience required for a particular job, have a Yamaha dealer perform it for you.

PERIODIC MAINTENANCE AND MINOR REPAIR

EWA10340

WARNING

Modifications not approved by Yamaha may cause loss of performance, excessive emissions, and render the vehicle unsafe for use. Consult a Yamaha dealer before attempting any changes.

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU17580

Periodic maintenance chart for the emission control system

| No. | ITEM | ROUTINE | INITIAL | ODOMETER READINGS | | | | | |
|-----|------|---|---|--|--|---|---|---|---|
| | | | 600 mi (1000 km) or 1 month | 4000 mi (6000 km) or 6 months | 7000 mi (11000 km) or 12 months | 10000 mi (16000 km) or 18 months | 13000 mi (21000 km) or 24 months | 16000 mi (26000 km) or 30 months | |
| 1 | * | Fuel line | <ul style="list-style-type: none">• Check fuel and vacuum hoses for cracks or damage.• Replace if necessary. | | √ | √ | √ | √ | √ |
| 2 | | Spark plugs | <ul style="list-style-type: none">• Check condition.• Adjust gap and clean.• Replace every 7000 mi (11000 km) or 12 months. | | √ | Replace. | √ | Replace. | √ |
| 3 | * | Valve clearance | <ul style="list-style-type: none">• Check and adjust valve clearance when engine is cold. | √ | √ | √ | √ | √ | √ |
| 4 | * | Crankcase breather system | <ul style="list-style-type: none">• Check breather hose for cracks or damage.• Replace if necessary. | | √ | | √ | | √ |
| 5 | * | Idle speed | <ul style="list-style-type: none">• Check and adjust engine idle speed. | | √ | √ | √ | √ | √ |
| 6 | * | Exhaust system | <ul style="list-style-type: none">• Check for leakage.• Tighten if necessary.• Replace gasket(s) if necessary. | | √ | √ | √ | √ | √ |
| 7 | * | Evaporative emission control system (For California only) | <ul style="list-style-type: none">• Check control system for damage.• Replace if necessary. | | | √ | | √ | |

* Since these items require special tools, data and technical skills, have a Yamaha dealer perform the service.

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU32164

General maintenance and lubrication chart

| No. | ITEM | ROUTINE | INITIAL | ODOMETER READINGS | | | | |
|-----|------|---------------------------|---|--|--|---|---|---|
| | | | 600 mi (1000 km) or 1 month | 4000 mi (6000 km) or 6 months | 7000 mi (11000 km) or 12 months | 10000 mi (16000 km) or 18 months | 13000 mi (21000 km) or 24 months | 16000 mi (26000 km) or 30 months |
| 1 | * | Air filter element | <ul style="list-style-type: none"> Clean with solvent. Replace if necessary. | √ | √ | √ | √ | √ |
| 2 | * | Battery | <ul style="list-style-type: none"> Check specific gravity and breath-er hose for proper operation. | √ | √ | √ | √ | √ |
| 3 | * | Clutch | <ul style="list-style-type: none"> Check operation. Adjust or replace cable. | √ | √ | √ | √ | √ |
| 4 | * | Front brake | <ul style="list-style-type: none"> Check operation, fluid level, and for fluid leakage. Adjust brake lever free play and replace brake pads if necessary. | √ | √ | √ | √ | √ |
| 5 | * | Rear brake | <ul style="list-style-type: none"> Check operation. Adjust brake pedal free play and replace brake shoes if necessary. | √ | √ | √ | √ | √ |
| 6 | * | Brake hose | <ul style="list-style-type: none"> Check for cracks or damage. Replace. | √ | √ | √ | √ | √ |
| | | | | Every 4 years | | | | |
| 7 | * | Wheels | <ul style="list-style-type: none"> Check runout, spoke tightness and for damage. Tighten spokes if necessary. | √ | √ | √ | √ | √ |
| 8 | * | Tires | <ul style="list-style-type: none"> Check tread depth and for dam-age. Replace if necessary. Check air pressure. Correct if necessary. | √ | √ | √ | √ | √ |

PERIODIC MAINTENANCE AND MINOR REPAIR

| No. | ITEM | ROUTINE | INITIAL | ODOMETER READINGS | | | | | |
|-----|------|--------------------------|--|--|--|---|---|---|---|
| | | | 600 mi (1000 km) or 1 month | 4000 mi (6000 km) or 6 months | 7000 mi (11000 km) or 12 months | 10000 mi (16000 km) or 18 months | 13000 mi (21000 km) or 24 months | 16000 mi (26000 km) or 30 months | |
| 9 | * | Wheel bearings | <ul style="list-style-type: none">Check bearings for smooth operation.Replace if necessary. | | √ | √ | √ | √ | √ |
| 10 | * | Swingarm pivot bushes | <ul style="list-style-type: none">Check bush assemblies for looseness.Lubricate with lithium-soap-based grease. | | √ | √ | √ | √ | |
| 11 | | Drive chain | <ul style="list-style-type: none">Check chain slack, alignment and condition.Adjust and thoroughly lubricate chain with Yamaha chain and cable lube. | Every 300 mi (500 km) and after washing the motorcycle or riding in the rain | | | | | |
| 12 | * | Steering bearings | <ul style="list-style-type: none">Check bearing assemblies for looseness.Moderately repack with lithium-soap-based grease every 10000 mi (16000 km) or 18 months. | √ | √ | √ | Repack. | √ | √ |
| 13 | * | Chassis fasteners | <ul style="list-style-type: none">Check all chassis fitting and fasteners.Correct if necessary. | | √ | √ | √ | √ | √ |
| 14 | | Brake lever pivot shaft | <ul style="list-style-type: none">Apply silicone grease lightly. | | √ | √ | √ | √ | √ |
| 15 | | Brake pedal pivot shaft | <ul style="list-style-type: none">Apply lithium-soap-based grease (all-purpose grease) lightly. | | √ | √ | √ | √ | √ |
| 16 | | Clutch lever pivot shaft | <ul style="list-style-type: none">Apply lithium-soap-based grease (all-purpose grease) lightly. | | √ | √ | √ | √ | √ |

PERIODIC MAINTENANCE AND MINOR REPAIR

| No. | ITEM | ROUTINE | INITIAL | ODOMETER READINGS | | | | | |
|-----|---------------------------------|---|--------------------------------------|--|--|---|---|---|--|
| | | | 600 mi (1000 km) or 1 month | 4000 mi (6000 km) or 6 months | 7000 mi (11000 km) or 12 months | 10000 mi (16000 km) or 18 months | 13000 mi (21000 km) or 24 months | 16000 mi (26000 km) or 30 months | |
| 17 | Shift pedal pivot shaft | • Apply lithium-soap-based grease (all-purpose grease) lightly. | | √ | √ | √ | √ | √ | |
| 18 | Sidestand pivot | • Check operation. • Apply lithium-soap-based grease (all-purpose grease) lightly. | | √ | √ | √ | √ | √ | |
| 19 | * Sidestand switch | • Check operation and replace if necessary. | √ | √ | √ | √ | √ | √ | |
| 20 | * Front fork | • Check operation and for oil leak-age. • Replace if necessary. | | √ | √ | √ | √ | √ | |
| 21 | * Shock absorber as-semblies | • Check operation and for oil leak-age. • Replace if necessary. | | √ | √ | √ | √ | √ | |
| 22 | Engine oil | • Change (warm engine before draining). | √ | √ | √ | √ | √ | √ | |
| 23 | Engine oil filter ele-ment | • Replace. | √ | | √ | | √ | | |
| 24 | * Front and rear brake switches | • Check operation. | √ | √ | √ | √ | √ | √ | |
| 25 | * Control and meter cables | • Apply Yamaha chain and cable lube or engine oil 10W-30 thor-oughly. | √ | √ | √ | √ | √ | √ | |

PERIODIC MAINTENANCE AND MINOR REPAIR

| No. | | ITEM | ROUTINE | INITIAL | ODOMETER READINGS | | | | | |
|-----|---|---------------------------------|---|--------------------------------------|--|--|---|---|---|--|
| | | | | 600 mi (1000 km) or 1 month | 4000 mi (6000 km) or 6 months | 7000 mi (11000 km) or 12 months | 10000 mi (16000 km) or 18 months | 13000 mi (21000 km) or 24 months | 16000 mi (26000 km) or 30 months | |
| 26 | * | Throttle grip housing and cable | <ul style="list-style-type: none">• Check operation and free play.• Adjust the throttle cable free play if necessary.• Lubricate the throttle grip housing and cable. | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 27 | * | Lights, signals and switches | <ul style="list-style-type: none">• Check operation.• Adjust headlight beam. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

* Since these items require special tools, data and technical skills, have a Yamaha dealer perform the service.

NOTE:

From 19000 mi (31000 km) or 36 months, repeat the maintenance intervals starting from 7000 mi (11000 km) or 12 months.

6

EAU17620

NOTE:

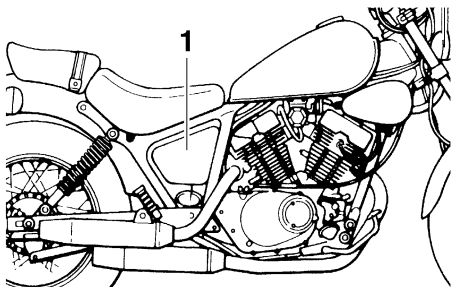
- The air filter needs more frequent service if you are riding in unusually wet or dusty areas.
- Hydraulic brake system
 - When disassembling the master cylinder or caliper cylinder, always replace the brake fluid. Check the brake fluid level regularly and fill as required.
 - Replace the oil seals on the inner parts of the master cylinder and caliper cylinder every two years.
 - Replace the brake hoses every four years or if cracked or damaged.

PERIODIC MAINTENANCE AND MINOR REPAIR

Removing and installing the panel

EAU18751

The panel shown needs to be removed to perform some of the maintenance jobs described in this chapter. Refer to this section each time the panel needs to be removed and installed.



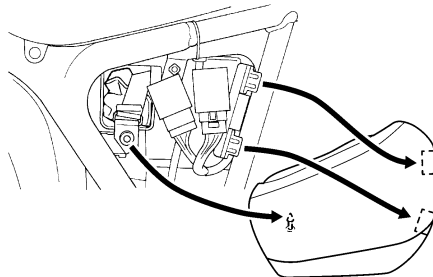
1. Panel A

Panel A

EAU19510

To remove the panel

Pull the rear of the panel out, and then slide the panel forward to release it in the front.



To install the panel

Secure the front of the panel, and then push the rear of the panel in.

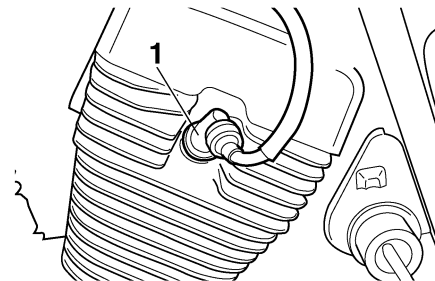
Checking the spark plugs

EAU19544

The spark plugs are important engine components, which are easy to check. Since heat and deposits will cause any spark plug to slowly erode, the spark plugs should be removed and checked in accordance with the periodic maintenance and lubrication chart. In addition, the condition of the spark plugs can reveal the condition of the engine.

To remove a spark plug

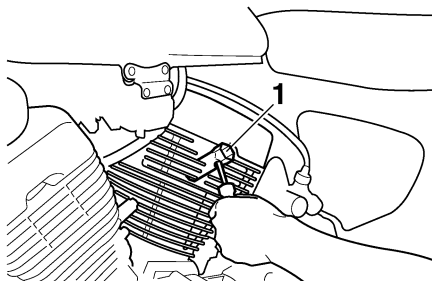
1. Remove the spark plug cap.



1. Spark plug cap

2. Remove the spark plug as shown, with the spark plug wrench included in the owner's tool kit.

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Spark plug wrench

To check the spark plugs

1. Check that the porcelain insulator around the center electrode on each spark plug is a medium-to-light tan (the ideal color when the vehicle is ridden normally).
2. Check that all spark plugs installed in the engine have the same color.

NOTE:

If any spark plug shows a distinctly different color, the engine could be operating improperly. Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the vehicle.

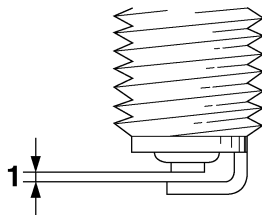
3. Check each spark plug for electrode erosion and excessive carbon or other deposits, and replace it if necessary.

Specified spark plug:

NGK/C6HSA
DENSO/U20FS-U

To install a spark plug

1. Measure the spark plug gap with a wire thickness gauge and, if necessary, adjust the gap to specification.



1. Spark plug gap

Spark plug gap:

0.6–0.7 mm (0.024–0.028 in)

2. Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads.
3. Install the spark plug with the spark plug wrench, and then tighten it to the specified torque.

Tightening torque:

Spark plug:
12.5 Nm (1.25 m·kgf, 9.0 ft·lbf)

NOTE:

If a torque wrench is not available when installing a spark plug, a good estimate of the correct torque is 1/4–1/2 turn past finger tight. However, the spark plug should be tightened to the specified torque as soon as possible.

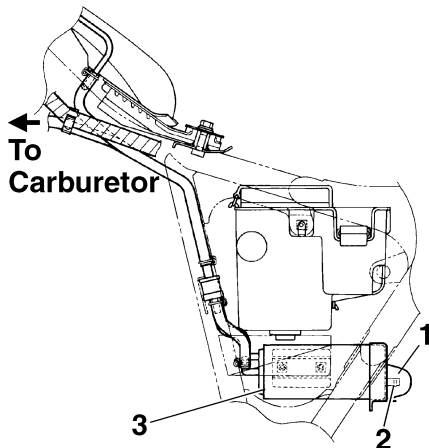
4. Install the spark plug cap.

PERIODIC MAINTENANCE AND MINOR REPAIR

Canister (for California only)

EAU19681

- Make sure that the canister breather is not blocked, and if necessary, clean it.



1. Canister cover
2. Canister breather
3. Canister

This model is equipped with a canister to prevent the discharging of fuel vapor into the atmosphere. Before operating this vehicle, make sure to check the following:

- Check each hose connection.
- Check each hose and canister for cracks or damage. Replace if damaged.

Engine oil and oil filter element

EAU42101

The engine oil level should be checked before each ride. In addition, the oil must be changed and the oil filter element replaced at the intervals specified in the periodic maintenance and lubrication chart.

To check the engine oil level

1. Place the vehicle on a level surface and hold it in an upright position.

NOTE:

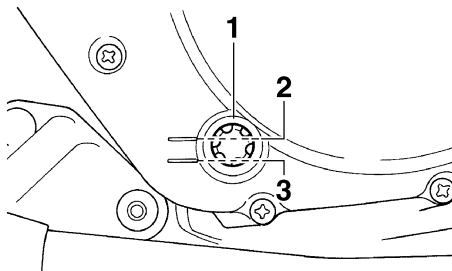
Make sure that the vehicle is positioned straight up when checking the oil level. A slight tilt to the side can result in a false reading.

2. Start the engine, warm it up for several minutes, and then turn it off.
3. Wait a few minutes until the oil settles, and then check the oil level through the check window located at the bottom-right side of the crankcase.

PERIODIC MAINTENANCE AND MINOR REPAIR

NOTE:

The engine oil should be between the minimum and maximum level marks.



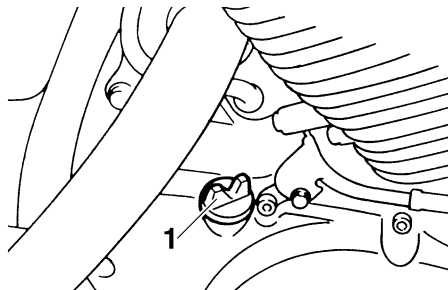
1. Engine oil level check window
2. Maximum level mark
3. Minimum level mark

4. If the engine oil is below the minimum level mark, add sufficient oil of the recommended type to raise it to the correct level.

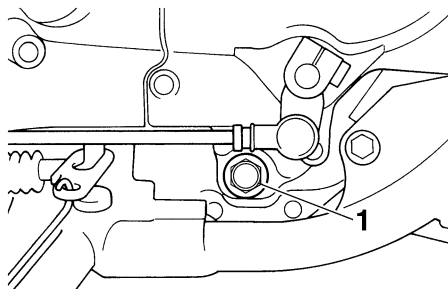
To change the engine oil (with or without oil filter element replacement)

1. Start the engine, warm it up for several minutes, and then turn it off.

2. Place an oil pan under the engine to collect the used oil.
3. Remove the engine oil filler cap and drain bolt to drain the oil from the crankcase.



1. Engine oil filler cap

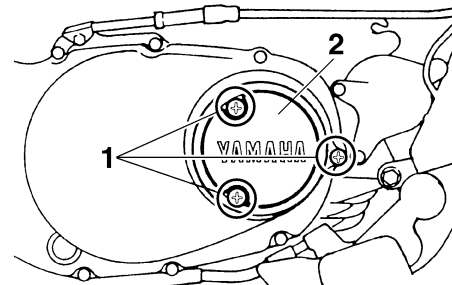


1. Engine oil drain bolt

NOTE:

Skip steps 4–6 if the oil filter element is not being replaced.

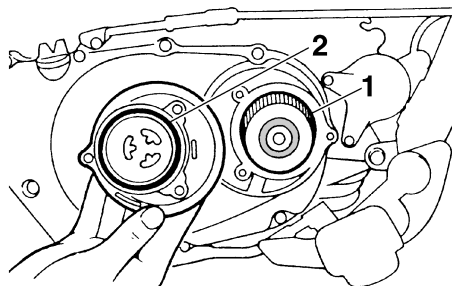
4. Remove the oil filter element cover by removing the screws.



1. Screw
2. Oil filter element cover

5. Remove and replace the oil filter element and O-ring.

PERIODIC MAINTENANCE AND MINOR REPAIR



- 1. Oil filter element
- 2. O-ring

- 6. Install the oil filter element cover by installing the screws, then tightening them to the specified torque.

Tightening torque:

Oil filter element cover screw:
7 Nm (0.7 m·kgf, 5.1 ft·lbf)

NOTE: _____
Make sure that the O-ring is properly seated.

- 7. Install the engine oil drain bolt, and then tighten it to the specified torque.

Tightening torque:

Engine oil drain bolt:
34 Nm (3.4 m·kgf, 24 ft·lbf)

- 8. Add the specified amount of the recommended engine oil, and then install and tighten the oil filler cap.

Recommended engine oil:

See page 8-1.

Oil quantity:

With oil filter element replacement:
1.60 L (1.69 US qt) (1.41 Imp.qt)

Without oil filter element replacement:
1.40 L (1.48 US qt) (1.23 Imp.qt)

NOTE: _____
Be sure to wipe off spilled oil on any parts after the engine and exhaust system have cooled down.

ECA11620

CAUTION: _____

- In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives. Do not use oils with a diesel specification of “CD” or oils of a higher

quality than specified. In addition, do not use oils labeled “ENERGY CONSERVING II” or higher.

- Make sure that no foreign material enters the crankcase.
- 9. Start the engine, and then let it idle for several minutes while checking it for oil leakage. If oil is leaking, immediately turn the engine off and check for the cause.
 - 10. Turn the engine off, and then check the oil level and correct it if necessary.

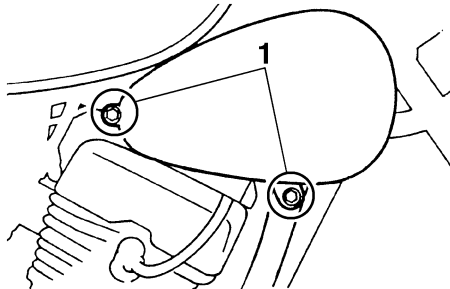
PERIODIC MAINTENANCE AND MINOR REPAIR

EAU32735

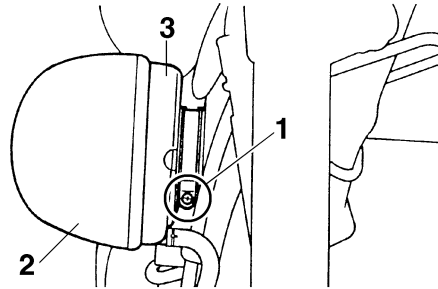
Cleaning the air filter element

The air filter element should be cleaned at the intervals specified in the periodic maintenance and lubrication chart. Clean the air filter element more frequently if you are riding in unusually wet or dusty areas.

1. Remove the bolts and loosen the air filter case joint clamp screw.

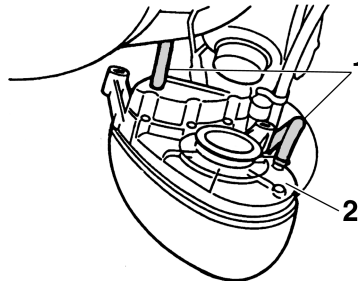


1. Bolt



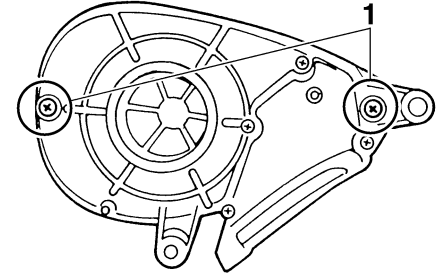
1. Air filter case joint clamp screw
2. Air filter case cover
3. Air filter case

2. Disconnect the hoses from the air filter case, and then remove the air filter case.



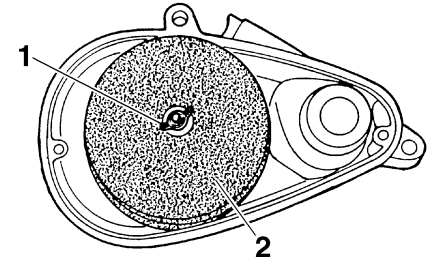
1. Hose
2. Air filter case

3. Remove the air filter case cover by removing the screws.



1. Screw

4. Remove the air filter element by removing the wing nut.

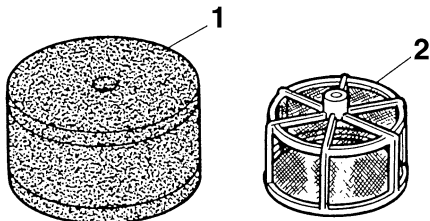


1. Wing nut
2. Air filter element

PERIODIC MAINTENANCE AND MINOR REPAIR

ECA10480

5. Remove the sponge material from the air filter element frame, clean it with solvent, and then squeeze the remaining solvent out.



1. Sponge material
2. Air filter element frame

6

EWA10430

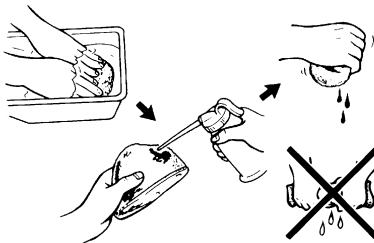
WARNING

Use only a dedicated parts cleaning solvent. To avoid the risk of fire or explosion, do not use gasoline or solvents with a low flash point.

ECA10510

CAUTION:

To avoid damaging the foam material, handle it gently and carefully, and do not twist or wring it.



6. Apply oil of the recommended type to the entire surface of the sponge material, and then squeeze the excess oil out.

NOTE:

The air filter element should be wet but not dripping.

Recommended oil:

Yamaha foam air filter oil or other quality foam air filter oil

7. Pull the sponge material over the air filter element frame.
8. Insert the element into the air filter case, and then tighten the wing nut.

CAUTION:

- Make sure that the air filter element is properly seated in the air filter case.
- The engine should never be operated without the air filter element installed, otherwise the piston(s) and/or cylinder(s) may become excessively worn.

9. Install the air filter case cover by installing the screws.
10. Connect the hoses to the air filter case.
11. Push the air filter case onto the air filter case joint, and then tighten the clamp screw.
12. Install the air filter case bolts.

PERIODIC MAINTENANCE AND MINOR REPAIR

Carburetor

EAU21251

The carburetor is an important part of the engine and its emission control system, which requires very sophisticated adjustment. Therefore, carburetor adjustments should be left to Yamaha dealer, who has the necessary professional knowledge and experience.

Checking the engine idling speed

EAU21311

The engine idling speed must be checked as follows and, if necessary, adjusted by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart. Start the engine and warm it up for several minutes at 1000–2000 r/min while occasionally revving it to 4000–5000 r/min.

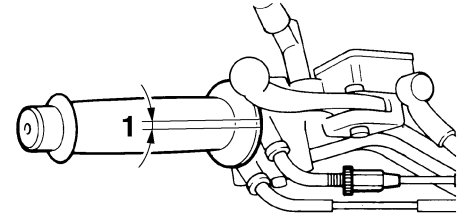
NOTE: _____

The engine is warm when it quickly responds to the throttle.

Engine idling speed:
1350–1450 r/min

Checking the throttle cable free play

EAU21382



1. Throttle cable free play

The throttle cable free play should measure 3.0–5.0 mm (0.12–0.20 in) at the throttle grip. Periodically check the throttle cable free play and, if necessary, have a Yamaha dealer adjust it.

PERIODIC MAINTENANCE AND MINOR REPAIR

Valve clearance

EAU21401

The valve clearance changes with use, resulting in improper air-fuel mixture and/or engine noise. To prevent this from occurring, the valve clearance must be adjusted by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart.

Tires

EAU32520

To maximize the performance, durability, and safe operation of your motorcycle, note the following points regarding the specified tires.

Tire air pressure

The tire air pressure should be checked and, if necessary, adjusted before each ride.

EWA10500

WARNING

- The tire air pressure must be checked and adjusted on cold tires (i.e., when the temperature of the tires equals the ambient temperature).
- The tire air pressure must be adjusted in accordance with the riding speed and with the total weight of rider, passenger, cargo, and accessories approved for this model.

Tire air pressure (measured on cold tires):

0–90 kg (0–198 lb):

Front:

175 kPa (25 psi) (1.75 kgf/cm²)

Rear:

200 kPa (29 psi) (2.00 kgf/cm²)

XV250X 90–196 kg (198–432 lb)

XV250XC 90–195 kg (198–430 lb):

Front:

200 kPa (29 psi) (2.00 kgf/cm²)

Rear:

225 kPa (33 psi) (2.25 kgf/cm²)

Maximum load*:

XV250X 196 kg (432 lb)

XV250XC 195 kg (430 lb)

* Total weight of rider, passenger, cargo and accessories

EWA10510

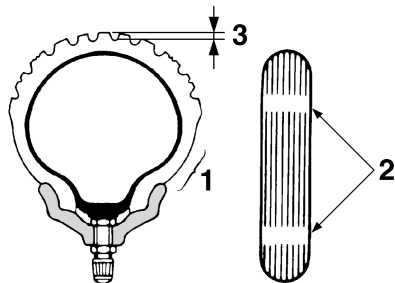
WARNING

Proper loading of your vehicle is important for several characteristics of your vehicle, such as handling, braking, performance and safety. Do not carry loosely packed items that can shift. Securely pack your heaviest items close to the center of the vehicle, and distribute the weight evenly from side to side. Properly adjust the suspension for your load,

PERIODIC MAINTENANCE AND MINOR REPAIR

and check the condition and pressure of your tires. **NEVER OVERLOAD YOUR VEHICLE.** Make sure that the total weight of the cargo, rider, passenger, and accessories (cowling, saddlebags, etc. if approved for this model) does not exceed the maximum load of the vehicle. Operation of an overloaded vehicle could cause tire damage, an accident, or even injury.

Tire inspection



1. Tire sidewall
2. Tire wear indicator
3. Tire tread depth

Always check the tires before operating the motorcycle. If a tire tread shows crosswise lines (minimum tread depth),

if the tire has a nail or glass fragments in it, or if the sidewall is cracked, contact a Yamaha dealer immediately and have the tire replaced.

Minimum tire tread depth (front and rear):
1.0 mm (0.04 in)

EWA10560

! WARNING

- It is dangerous to ride with a worn-out tire. When a tire tread begins to show crosswise lines, have a Yamaha dealer replace the tire immediately.
- The replacement of all wheel- and brake-related parts, including the tires, should be left to a Yamaha dealer, who has the necessary professional knowledge and experience.
- It is not recommended to patch a punctured tube. If unavoidable, however, patch the tube very carefully and replace it as soon as possible with a high-quality product.

Tire information

This motorcycle is equipped with spoke wheels and tube tires.

EWA10460

! WARNING

- The front and rear tires should be of the same make and design, otherwise the handling characteristics of the vehicle cannot be guaranteed.
- After extensive tests, only the tires listed below have been approved for this model by Yamaha Motor Co., Ltd.

Front tire:

Size:
3.00-18 47P
Manufacturer/model:
CHENG SHIN/C-916

Rear tire:

Size:
130/90-15M/C 66P
Manufacturer/model:
CHENG SHIN/C-915

PERIODIC MAINTENANCE AND MINOR REPAIR

Spoke wheels

EAU21940

To maximize the performance, durability, and safe operation of your motorcycle, note the following points regarding the specified wheels.

- The wheel rims should be checked for cracks, bends or warpage, and the spokes for looseness or damage before each ride. If any damage is found, have a Yamaha dealer replace the wheel. Do not attempt even the smallest repair to the wheel. A deformed or cracked wheel must be replaced.
- The wheel should be balanced whenever either the tire or wheel has been changed or replaced. An unbalanced wheel can result in poor performance, adverse handling characteristics, and a shortened tire life.
- Ride at moderate speeds after changing a tire since the tire surface must first be “broken in” for it to develop its optimal characteristics.

Accessories and replacement parts

EAU22011

EWA10621

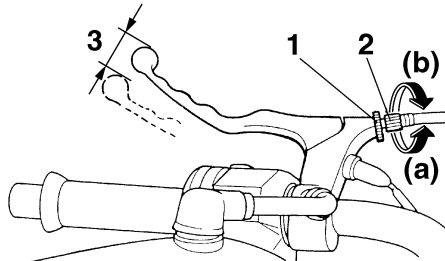


This vehicle is not designed to pull a trailer or to be attached to a sidecar. The accessories or replacement parts you choose for your vehicle should be designed specifically for this model, and they must be securely mounted to maintain the inherent stability of the original design. Genuine Yamaha Parts and Accessories are designed and tested to be compatible with your vehicle. Please consider Genuine Yamaha Parts and Accessories before making a purchase. Use of non-Yamaha-approved accessories or replacement parts may cause loss of handling stability and riding safety. Since Yamaha cannot control the quality of accessories or parts manufactured by other companies, Yamaha cannot be held liable for

any consequences caused by the use of items which have not been approved by Yamaha.

EAU22041

Adjusting the clutch lever free play



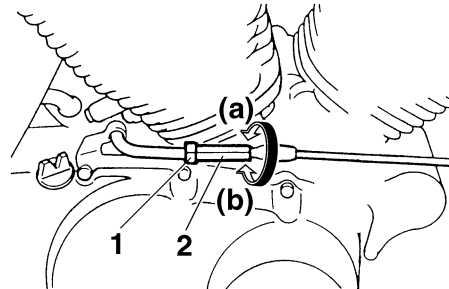
1. Locknut
2. Clutch lever free play adjusting bolt
3. Clutch lever free play

The clutch lever free play should measure 10.0–15.0 mm (0.39–0.59 in) as shown. Periodically check the clutch lever free play and, if necessary, adjust it as follows.

1. Loosen the locknut at the clutch lever.
2. To increase the clutch lever free play, turn the adjusting bolt in direction (a). To decrease the clutch lever free play, turn the adjusting bolt in direction (b).

NOTE: _____
If the specified clutch lever free play could be obtained as described above, tighten the locknut and skip the rest of the procedure, otherwise proceed as follows.

3. Fully turn the adjusting bolt at the clutch lever in direction (a) to loosen the clutch cable.
4. Loosen the locknut at the crankcase.



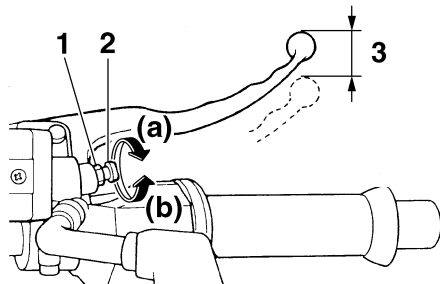
1. Locknut
2. Clutch lever free play adjusting nut (crankcase)

5. To increase the clutch lever free play, turn the adjusting nut in direction (a). To decrease the clutch lever free play, turn the adjusting nut in direction (b).
6. Tighten the locknut at the clutch lever and the crankcase.

PERIODIC MAINTENANCE AND MINOR REPAIR

Adjusting the brake lever free play

EAU22092



1. Locknut
2. Brake lever free play adjusting screw
3. Brake lever free play

6

The brake lever free play should measure 2.0–5.0 mm (0.08–0.20 in) as shown. Periodically check the brake lever free play and, if necessary, adjust it as follows.

1. Loosen the locknut at the brake lever.
2. To increase the brake lever free play, turn the adjusting screw in direction (a). To decrease the brake lever free play, turn the adjusting screw in direction (b).
3. Tighten the locknut.

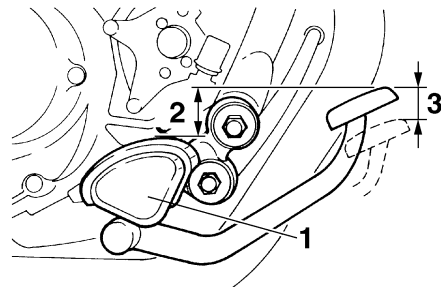
WARNING

- After adjusting the brake lever free play, check the free play and make sure that the brake is working properly.
- A soft or spongy feeling in the brake lever can indicate the presence of air in the hydraulic system. If there is air in the hydraulic system, have a Yamaha dealer bleed the system before operating the motorcycle. Air in the hydraulic system will diminish the braking performance, which may result in loss of control and an accident.

EWA10630

Adjusting the brake pedal position and free play

EAU22201



1. Footrest
2. Distance between brake pedal and footrest
3. Brake pedal free play

WARNING

It is advisable to have a Yamaha dealer make these adjustments.

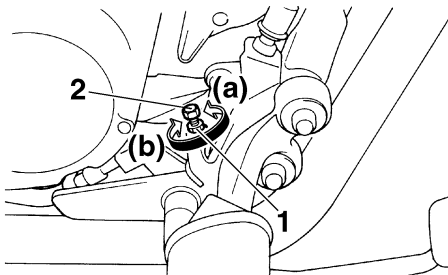
EWA10670

Brake pedal position

The top of the brake pedal should be positioned approximately 60.0 mm (2.36 in) above the top of the footrest as shown. Periodically check the brake pedal position and, if necessary, adjust it as follows.

PERIODIC MAINTENANCE AND MINOR REPAIR

1. Loosen the locknut at the brake pedal.
2. To raise the brake pedal, turn the adjusting bolt in direction (a). To lower the brake pedal, turn the adjusting bolt in direction (b).



1. Locknut
 2. Brake pedal position adjusting bolt
3. Tighten the locknut.

EWA11230

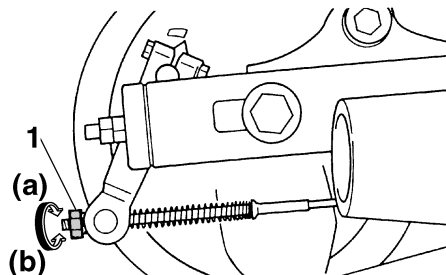
WARNING

After adjusting the brake pedal position, the brake pedal free play must be adjusted.

Brake pedal free play

The brake pedal free play should measure 20.0–30.0 mm (0.79–1.18 in) at the brake pedal end. Periodically check the brake pedal free play and, if necessary, adjust it as follows.

To increase the brake pedal free play, turn the adjusting nut at the brake rod in direction (a). To decrease the brake pedal free play, turn the adjusting nut in direction (b).



1. Brake pedal free play adjusting nut

EWA10680

WARNING

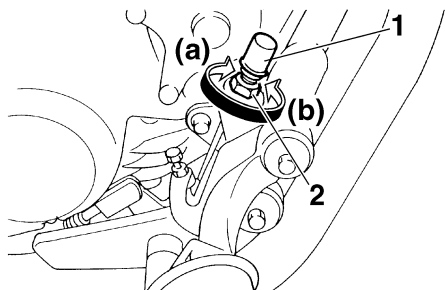
- After adjusting the drive chain slack or removing and installing the rear wheel, always check the brake pedal free play.

- If proper adjustment cannot be obtained as described, have a Yamaha dealer make this adjustment.
- After adjusting the brake pedal free play, check the operation of the brake light.

PERIODIC MAINTENANCE AND MINOR REPAIR

Adjusting the rear brake light switch

EAU22270



1. Rear brake light switch
2. Rear brake light switch adjusting nut

6

The rear brake light switch, which is activated by the brake pedal, is properly adjusted when the brake light comes on just before braking takes effect. If necessary, adjust the brake light switch as follows.

Turn the adjusting nut while holding the rear brake light switch in place. To make the brake light come on earlier, turn the adjusting nut in direction (a). To make the brake light come on later, turn the adjusting nut in direction (b).

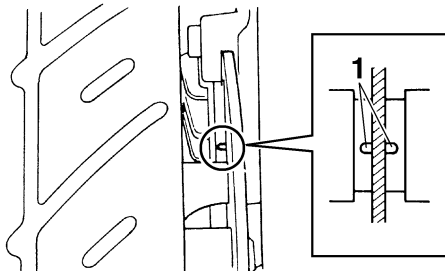
Checking the front brake pads and rear brake shoes

EAU22380

The front brake pads and the rear brake shoes must be checked for wear at the intervals specified in the periodic maintenance and lubrication chart.

Front brake pads

EAU22420



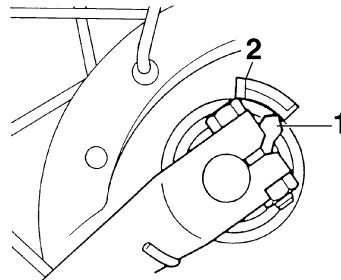
1. Brake pad wear indicator groove

Each front brake pad is provided with a wear indicator groove, which allows you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the wear indicator groove. If a brake pad has worn to the point that the wear

indicator groove has almost disappeared, have a Yamaha dealer replace the brake pads as a set.

Rear brake shoes

EAU22540

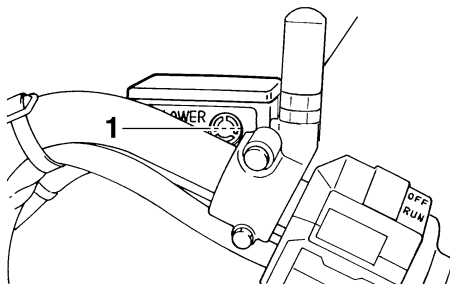


1. Brake shoe wear indicator
2. Brake shoe wear limit line

The rear brake is provided with a wear indicator, which allows you to check the brake shoe wear without having to disassemble the brake. To check the brake shoe wear, check the position of the wear indicator while applying the brake. If a brake shoe has worn to the point that the wear indicator reaches the wear limit line, have a Yamaha dealer replace the brake shoes as a set.

Checking the brake fluid level

EAU32344



1. Minimum level mark

Insufficient brake fluid may allow air to enter the brake system, possibly causing it to become ineffective.

Before riding, check that the brake fluid is above the minimum level mark and replenish if necessary. A low brake fluid level may indicate worn brake pads and/or brake system leakage. If the brake fluid level is low, be sure to check the brake pads for wear and the brake system for leakage.

Observe these precautions:

- When checking the fluid level, make sure that the top of the master cylinder is level by turning the handlebars.

- Use only the recommended quality brake fluid, otherwise the rubber seals may deteriorate, causing leakage and poor braking performance.

Recommended brake fluid: DOT 4

- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor braking performance.
- Be careful that water does not enter the master cylinder when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.
- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
- As the brake pads wear, it is normal for the brake fluid level to gradually go down. However, if the brake fluid level goes down suddenly, have a Yamaha dealer check the cause.

Changing the brake fluid

EAU22720

Have a Yamaha dealer change the brake fluid at the intervals specified in the NOTE after the periodic maintenance and lubrication chart. In addition, have the oil seals of the brake master cylinder and caliper as well as the brake hose replaced at the intervals listed below or whenever they are damaged or leaking.

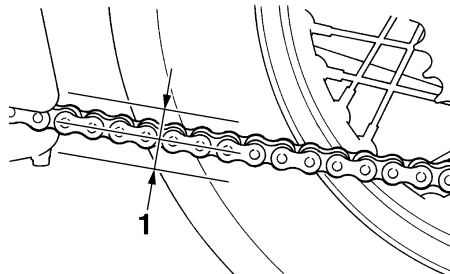
- Oil seals: Replace every two years.
- Brake hose: Replace every four years.

PERIODIC MAINTENANCE AND MINOR REPAIR

Drive chain slack

The drive chain slack should be checked before each ride and adjusted if necessary.

EAU22760



To check the drive chain slack

EAU22773

1. Place the motorcycle on the side-stand.

NOTE:

When checking and adjusting the drive chain slack, there should be no weight on the motorcycle.

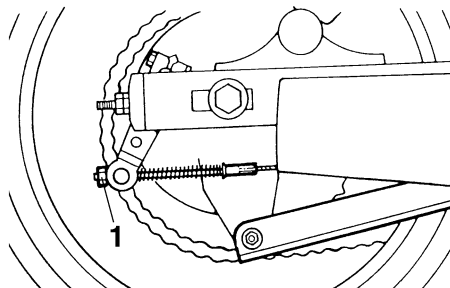
1. Drive chain slack

4. If the drive chain slack is incorrect, adjust it as follows.

EAU22660

To adjust the drive chain slack

1. Loosen the brake pedal free play adjusting nut.



1. Brake pedal free play adjusting nut

2. Remove the cotter pin from the axle nut, and then loosen the axle nut.
3. Loosen the chain puller locknut at each end of the swingarm.
4. To tighten the drive chain, turn the adjusting nut at each end of the swingarm in direction (a). To loosen the drive chain, turn the adjusting nut at each end of the swingarm in direction (b), and then push the rear wheel forward.

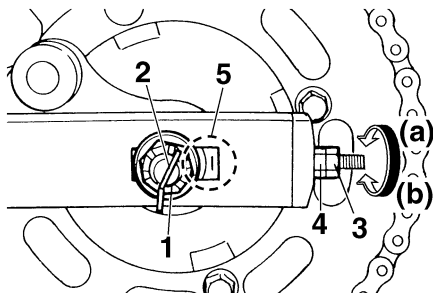
NOTE:

Using the alignment marks on each side of the swingarm, make sure that both chain pullers are in the same position for proper wheel alignment.

Drive chain slack:

30.0–40.0 mm (1.18–1.57 in)

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Axle nut
2. Axle nut cotter pin
3. Chain puller locknut
4. Drive chain slack adjusting nut
5. Alignment marks

ECA10570

CAUTION:

Improper drive chain slack will overload the engine as well as other vital parts of the motorcycle and can lead to chain slippage or breakage. To prevent this from occurring, keep the drive chain slack within the specified limits.

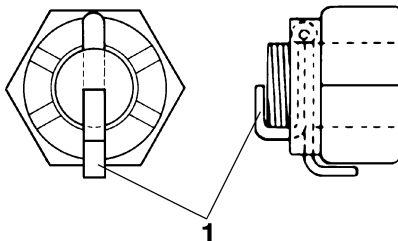
5. Tighten the locknuts, and then tighten the axle nut to the specified torque.

Tightening torque:

Axle nut:

104 Nm (10.4 m·kgf, 75 ft·lbf)

6. Insert a new cotter pin into the axle nut, and then bend its ends as shown.



1. Cotter pin

NOTE:

Make sure that two notches in the axle nut are aligned with the hole through the wheel axle, otherwise further tighten the axle nut until they are.

EWA10700

WARNING

Always use a new cotter pin for the axle nut.

7. Adjust the brake pedal free play.
(See page 6-20.)

EWA10660

WARNING

After adjusting the brake pedal free play, check the operation of the brake light.

PERIODIC MAINTENANCE AND MINOR REPAIR

Cleaning and lubricating the drive chain

EAU23013

The drive chain must be cleaned and lubricated at the intervals specified in the periodic maintenance and lubrication chart, otherwise it will quickly wear out, especially when riding in dusty or wet areas. Service the drive chain as follows.

ECA10581

CAUTION:

The drive chain must be lubricated after washing the motorcycle and riding in the rain.

1. Remove all dirt and mud from the drive chain with a brush or cloth.

NOTE:

For a thorough cleaning, have a Yamaha dealer remove the drive chain and soak it in solvent.

2. Spray Yamaha Chain and Cable Lube or a high-quality spray-type drive chain lubricant on both sides and on the middle of the chain,

making sure that all side plates and rollers have been sufficiently oiled.

Checking and lubricating the cables

EAU23091

The operation of all control cables and the condition of the cables should be checked before each ride, and the cables and cable ends should be lubricated if necessary. If a cable is damaged or does not move smoothly, have a Yamaha dealer check or replace it.

Recommended lubricant:

Yamaha Chain and Cable Lube or engine oil SAE 10W-30

EWA10710

WARNING

Damage to the outer housing of cables may result in internal rusting and cause interference with cable movement. Replace damaged cables as soon as possible to prevent unsafe conditions.

PERIODIC MAINTENANCE AND MINOR REPAIR

Checking and lubricating the throttle grip and cable

EAU23111

The operation of the throttle grip should be checked before each ride. In addition, the cable should be lubricated at the intervals specified in the periodic maintenance chart.

Checking and lubricating the brake and shift pedals

EAU44270

The operation of the brake and shift pedals should be checked before each ride, and the pedal pivots should be lubricated if necessary.

Recommended lubricant:

Lithium-soap-based grease (all-purpose grease)

Checking and lubricating the brake and clutch levers

EAU23141

The operation of the brake and clutch levers should be checked before each ride, and the lever pivots should be lubricated if necessary.

Recommended lubricants:

Brake lever:

Silicone grease

Clutch lever:

Lithium-soap-based grease (all-purpose grease)

PERIODIC MAINTENANCE AND MINOR REPAIR

Checking and lubricating the sidestand

EAU23200

The operation of the sidestand should be checked before each ride, and the sidestand pivot and metal-to-metal contact surfaces should be lubricated if necessary.

EWA10730

WARNING

If the sidestand does not move up and down smoothly, have a Yamaha dealer check or repair it.

Recommended lubricant:

Lithium-soap-based grease (all-purpose grease)

Lubricating the swingarm pivots

EAUM1650

The swingarm pivots must be lubricated at the intervals specified in the periodic maintenance and lubrication chart.

Recommended lubricant:

Lithium-soap-based grease

Checking the front fork

EAU23271

The condition and operation of the front fork must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

To check the condition

EWA10750

WARNING

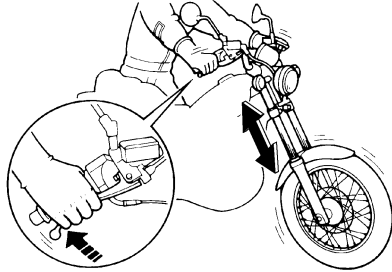
Securely support the vehicle so that there is no danger of it falling over.

Check the inner tubes for scratches, damage and excessive oil leakage.

To check the operation

1. Place the vehicle on a level surface and hold it in an upright position.
2. While applying the front brake, push down hard on the handlebars several times to check if the front fork compresses and rebounds smoothly.

PERIODIC MAINTENANCE AND MINOR REPAIR



ECA10590

CAUTION:

If any damage is found or the front fork does not operate smoothly, have a Yamaha dealer check or repair it.

Checking the steering

EAU23280

Worn or loose steering bearings may cause danger. Therefore, the operation of the steering must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

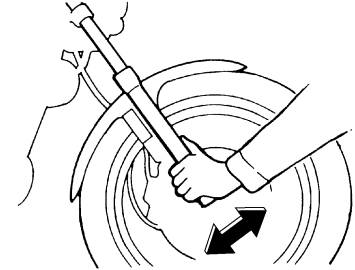
1. Place a stand under the engine to raise the front wheel off the ground.

EWA10750

! WARNING

Securely support the vehicle so that there is no danger of it falling over.

2. Hold the lower ends of the front fork legs and try to move them forward and backward. If any free play can be felt, have a Yamaha dealer check or repair the steering.



PERIODIC MAINTENANCE AND MINOR REPAIR

EAU23290

Checking the wheel bearings

The front and rear wheel bearings must be checked at the intervals specified in the periodic maintenance and lubrication chart. If there is play in the wheel hub or if the wheel does not turn smoothly, have a Yamaha dealer check the wheel bearings.

EAU23310

Battery

A poorly maintained battery will corrode and discharge quickly. The electrolyte level, battery lead connections and breather hose routing should be checked before each ride and at the intervals specified in the periodic maintenance and lubrication chart.

To check the electrolyte level

1. Place the vehicle on a level surface and hold it in an upright position.

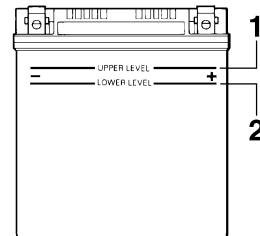
NOTE: _____

Make sure that the vehicle is positioned straight up when checking the electrolyte level.

2. Check the electrolyte level in the battery.

NOTE: _____

The electrolyte should be between the minimum and maximum level marks.



1. Maximum level mark
2. Minimum level mark

3. If the electrolyte is at or below the minimum level mark, add distilled water to raise it to the maximum level mark.

EWA10770

WARNING

- **Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe burns. Avoid any contact with skin, eyes or clothing and always shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.**
 - **EXTERNAL:** Flush with plenty of water.

PERIODIC MAINTENANCE AND MINOR REPAIR

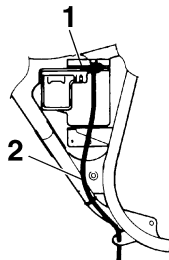
- **INTERNAL:** Drink large quantities of water or milk and immediately call a physician.
- **EYES:** Flush with water for 15 minutes and seek prompt medical attention.
- Batteries produce explosive hydrogen gas. Therefore, keep sparks, flames, cigarettes, etc., away from the battery and provide sufficient ventilation when charging it in an enclosed space.
- Take care not to spill electrolyte on the drive chain, as this may weaken it, shorten chain life and possibly result in an accident.
- **KEEP THIS AND ALL BATTERIES OUT OF THE REACH OF CHILDREN.**

ECA10610

CAUTION:

Use only distilled water, as tap water contains minerals that are harmful to the battery.

4. Check and, if necessary, tighten the battery lead connections and correct the breather hose routing.



1. Battery
2. Battery breather hose

To store the battery

1. If the motorcycle will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place.
2. If the battery will be stored for more than two months, check the specific gravity of the electrolyte at least once a month and fully charge the battery whenever necessary.
3. Fully charge the battery before installation.
4. After installation, make sure that the battery leads are properly connected to the battery terminals and

that the breather hose is properly routed, in good condition, and not obstructed.

ECA10600

CAUTION:

If the breather hose is positioned in such a way that the frame is exposed to electrolyte or gas expelled from the battery, the frame could suffer structural and external damages.

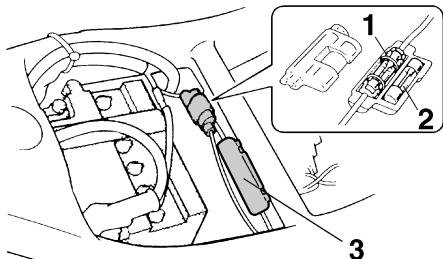
PERIODIC MAINTENANCE AND MINOR REPAIR

Replacing the fuses

EAU23600

ECA10640

EAU23780



1. Main fuse
2. Spare main fuse
3. Signaling system fuse

6

The main fuse and the signaling system fuse holders are located under the rider seat. (See page 3-8.)

If a fuse is blown, replace it as follows.

1. Turn the key to "OFF" and turn off the electrical circuit in question.
2. Remove the blown fuse, and then install a new fuse of the specified amperage.

Specified fuses:

Main fuse:

20.0 A

Signaling system fuse:

10.0 A

CAUTION:

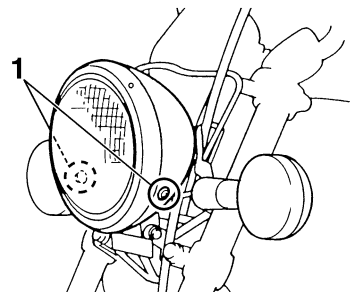
Do not use a fuse of a higher amperage rating than recommended to avoid causing extensive damage to the electrical system and possibly a fire.

3. Turn the key to "ON" and turn on the electrical circuit in question to check if the device operates.
4. If the fuse immediately blows again, have a Yamaha dealer check the electrical system.

Replacing the headlight bulb

This model is equipped with a quartz bulb headlight. If the headlight bulb burns out, replace it as follows.

1. Remove the headlight unit by removing the screws.

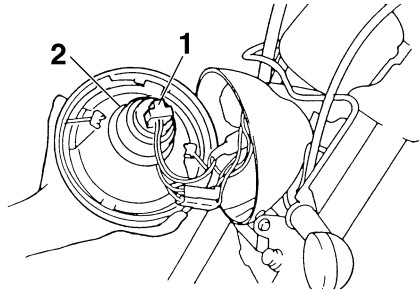


1. Screw

2. Disconnect the headlight coupler, and then remove the bulb cover.

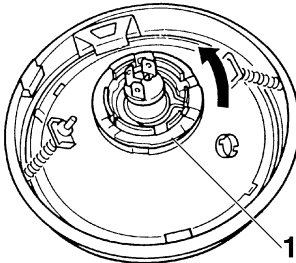
PERIODIC MAINTENANCE AND MINOR REPAIR

EWA10790



- 1. Headlight coupler
- 2. Headlight bulb cover

- 3. Remove the headlight bulb holder by turning it counterclockwise, and then remove the defective bulb.



- 1. Headlight bulb holder

WARNING

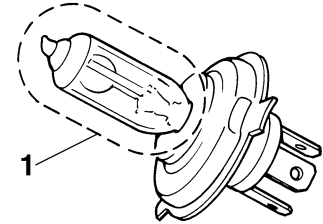
Headlight bulbs get very hot. Therefore, keep flammable products away from a lit headlight bulb, and do not touch the bulb until it has cooled down.

- 4. Place a new headlight bulb into position, and then secure it with the bulb holder.

ECA10660

CAUTION:

Do not touch the glass part of the headlight bulb to keep it free from oil, otherwise the transparency of the glass, the luminosity of the bulb, and the bulb life will be adversely affected. Thoroughly clean off any dirt and fingerprints on the headlight bulb using a cloth moistened with alcohol or thinner.



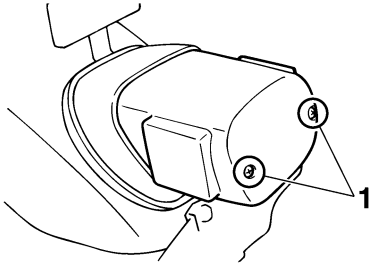
- 1. Do not touch the glass part of the bulb.
- 5. Install the headlight bulb cover, and then connect the coupler.
- 6. Install the headlight unit by installing the screws.
- 7. Have a Yamaha dealer adjust the headlight beam if necessary.

PERIODIC MAINTENANCE AND MINOR REPAIR

Replacing the tail/brake light bulb

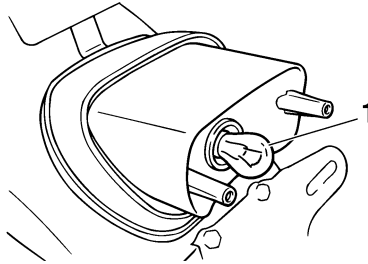
EAU24131

1. Remove the tail/brake light lens by removing the screws.



1. Screw

2. Remove the defective bulb by pushing it in and turning it counter-clockwise.



1. Tail/brake light bulb

3. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.
4. Install the lens by installing the screws.

CAUTION:

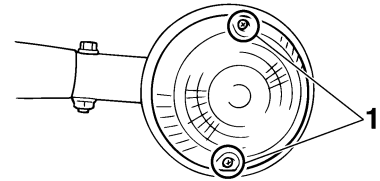
Do not overtighten the screws, otherwise the lens may break.

ECA10680

Replacing a turn signal light bulb

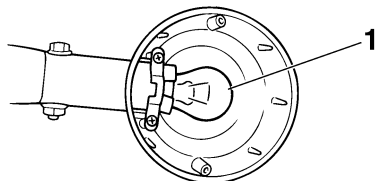
EAU24210

1. Remove the turn signal lens by removing the screws.



1. Screw

2. Remove the defective bulb by pushing it in and turning it counter-clockwise.



1. Turn signal light bulb
3. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.
4. Install the lens by installing the screws.

ECA10680

CAUTION:

Do not overtighten the screws, otherwise the lens may break.

Supporting the motorcycle

EAU24350

Since this model is not equipped with a centerstand, follow these precautions when removing the front and rear wheel or performing other maintenance requiring the motorcycle to stand upright. Check that the motorcycle is in a stable and level position before starting any maintenance. A strong wooden box can be placed under the engine for added stability.

a jack either under each side of the frame in front of the rear wheel or under each side of the swingarm.

To service the front wheel

1. Stabilize the rear of the motorcycle by using a motorcycle stand or, if an additional motorcycle stand is not available, by placing a jack under the frame in front of the rear wheel.
2. Raise the front wheel off the ground by using a motorcycle stand.

To service the rear wheel

Raise the rear wheel off the ground by using a motorcycle stand or, if a motorcycle stand is not available, by placing

PERIODIC MAINTENANCE AND MINOR REPAIR

Front wheel

EAU24360

To remove the front wheel

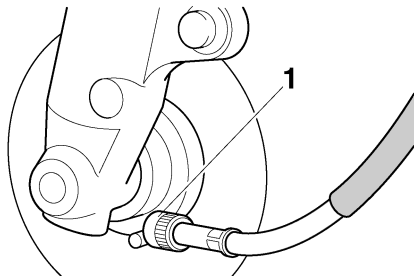
EAU24600

EWA10820

WARNING

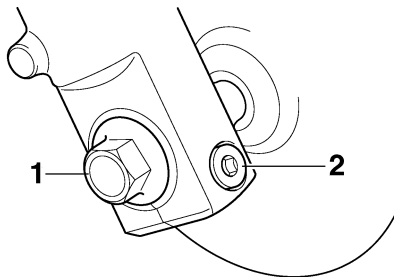
- It is advisable to have a Yamaha dealer service the wheel.
- Securely support the motorcycle so that there is no danger of it falling over.

1. Disconnect the speedometer cable from the front wheel.



1. Speedometer cable

2. Loosen the front wheel axle pinch bolt, then the wheel axle.



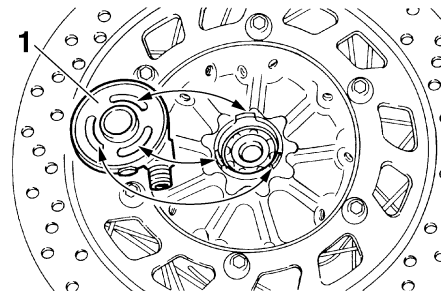
1. Wheel axle
2. Front wheel axle pinch bolt

3. Lift the front wheel off the ground according to the procedure on page 6-35.
4. Pull the wheel axle out, and then remove the wheel.

ECA11070

CAUTION:

Do not apply the brake after the wheel has been removed together with the brake disc, otherwise the brake pads will be forced shut.



1. Speedometer gear unit

2. Lift the wheel up between the fork legs.

NOTE:

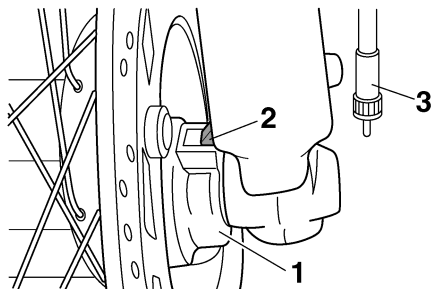
Make sure that there is enough space between the brake pads before inserting the brake disc and that the slot in the speedometer gear unit fits over the retainer on the fork leg.

EAU24932

To install the front wheel

1. Install the speedometer gear unit into the wheel hub so that the projections mesh with the slots.

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Speedometer gear unit
2. Retainer
3. Speedometer cable

3. Insert the wheel axle.
4. Lower the front wheel so that it is on the ground.
5. Tighten the wheel axle to the specified torque.

Tightening torque:

Wheel axle:

59 Nm (5.9 m·kgf, 43 ft·lbf)

6. Tighten the front wheel axle pinch bolt to the specified torque.

Tightening torque:

Front wheel axle pinch bolt:

20 Nm (2.0 m·kgf, 14 ft·lbf)

7. While applying the front brake, push down hard on the handlebars several times to check if the front fork compresses and rebounds smoothly.
8. Connect the speedometer cable.

Rear wheel

EAU25080

To remove the rear wheel

EAU32750

EWA10820

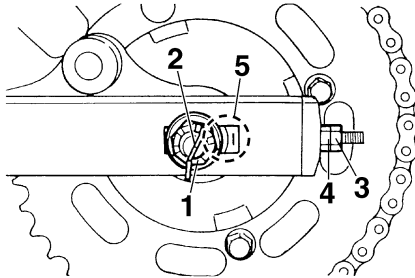
⚠ WARNING

- It is advisable to have a Yamaha dealer service the wheel.
- Securely support the motorcycle so that there is no danger of it falling over.

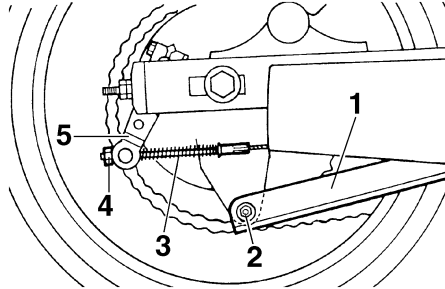
1. Remove the axle nut cotter pin.
2. Loosen the chain puller locknut and the drive chain slack adjusting nut on both ends of the swingarm.

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU32760



1. Axle nut
2. Axle nut cotter pin
3. Chain puller locknut
4. Drive chain slack adjusting nut
5. Alignment marks



1. Brake torque rod
2. Brake torque rod bolt and nut
3. Brake rod
4. Brake pedal free play adjusting nut
5. Brake camshaft lever

To install the rear wheel

1. Install the drive chain onto the rear sprocket, and then install the wheel by inserting the wheel axle from the right-hand side.
2. Install the brake rod onto the brake camshaft lever, and then install the brake pedal free play adjusting nut onto the brake rod.
3. Connect the brake torque rod to the brake shoe plate by installing the bolt and nut, and then tighten the bolt to the specified torque.

Tightening torque:

Brake torque rod bolt:
23 Nm (2.3 m·kgf, 17 ft·lbf)

3. Loosen the axle nut and the brake torque rod nut at the brake shoe plate.
4. Lift the rear wheel off the ground according to the procedure on page 6-35.
5. Remove the brake pedal free play adjusting nut, and then disconnect the brake rod at the brake camshaft lever.
6. Disconnect the brake torque rod from the brake shoe plate by removing the nut and the bolt.

7. Push the wheel forward, and then remove the drive chain from the rear sprocket.

NOTE:

The drive chain does not need to be disassembled in order to remove and install the rear wheel.

8. Remove the axle nut.
9. Pull the wheel axle out, and then remove the wheel.

4. Adjust the drive chain slack. (See page 6-24.)
5. Install the axle nut, and then lower the rear wheel so that it is on the ground.
6. Tighten the axle nut to the specified torque, and then insert a new cotter pin into the axle nut.

Tightening torque:

Axle nut:

104 Nm (10.4 m·kgf, 75 ft·lbf)

EWA10700

**WARNING**

Always use a new cotter pin for the axle nut.

7. Adjust the brake pedal position and free play. (See page 6-20.)

EWA10660

**WARNING**

After adjusting the brake pedal free play, check the operation of the brake light.

EAU25850

Troubleshooting

Although Yamaha motorcycles receive a thorough inspection before shipment from the factory, trouble may occur during operation. Any problem in the fuel, compression, or ignition systems, for example, can cause poor starting and loss of power.

The following troubleshooting chart represents a quick and easy procedure for checking these vital systems yourself. However, should your motorcycle require any repair, take it to a Yamaha dealer, whose skilled technicians have the necessary tools, experience, and know-how to service the motorcycle properly.

Use only genuine Yamaha replacement parts. Imitation parts may look like Yamaha parts, but they are often inferior, have a shorter service life and can lead to expensive repair bills.

PERIODIC MAINTENANCE AND MINOR REPAIR

Troubleshooting chart

EAU25931

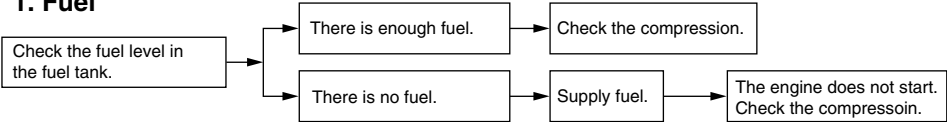
EWA10840



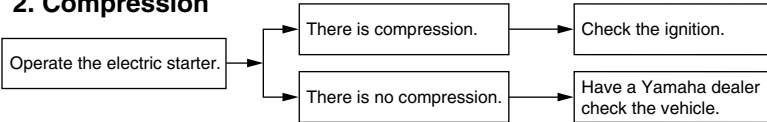
WARNING

Keep away open flames and do not smoke while checking or working on the fuel system.

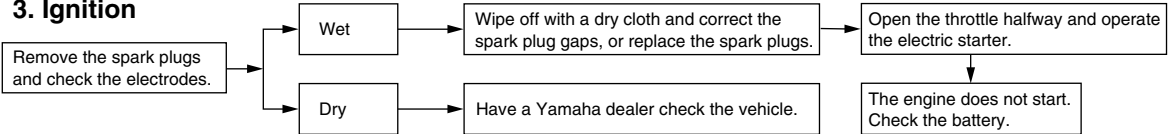
1. Fuel



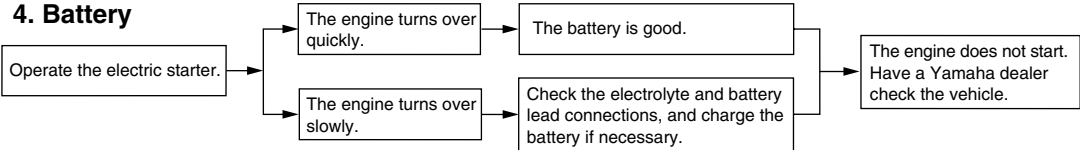
2. Compression



3. Ignition



4. Battery



Matte color caution

EAU37833

ECA15192

CAUTION:

Some models are equipped with matte colored finished parts. Be sure to consult a Yamaha dealer for advice on what products to use before cleaning the vehicle. Using a brush, harsh chemical products or cleaning compounds when cleaning these parts will scratch or damage their surface. Wax also should not be applied to any matte colored finished parts.

Care

EAU26042

While the open design of a motorcycle reveals the attractiveness of the technology, it also makes it more vulnerable. Rust and corrosion can develop even if high-quality components are used. A rusty exhaust pipe may go unnoticed on a car, however, it detracts from the overall appearance of a motorcycle. Frequent and proper care does not only comply with the terms of the warranty, but it will also keep your motorcycle looking good, extend its life and optimize its performance.

Before cleaning

1. Cover the muffler outlets with plastic bags after the engine has cooled down.
2. Make sure that all caps and covers as well as all electrical couplers and connectors, including the spark plug caps, are tightly installed.
3. Remove extremely stubborn dirt, like oil burnt onto the crankcase, with a degreasing agent and a brush, but never apply such prod-

ucts onto seals, gaskets, sprockets, the drive chain and wheel axles. Always rinse the dirt and degreaser off with water.

Cleaning

ECA10771

CAUTION:

- Avoid using strong acidic wheel cleaners, especially on spoked wheels. If such products are used on hard-to-remove dirt, do not leave the cleaner on the affected area any longer than instructed. Also, thoroughly rinse the area off with water, immediately dry it, and then apply a corrosion protection spray.
- Improper cleaning can damage plastic parts such as cowlings, panels, windshields, headlight lenses, meter lenses, etc. Use only a soft, clean cloth or sponge with mild detergent and water to clean plastic.
- Do not use any harsh chemical products on plastic parts. Be sure to avoid using cloths or sponges which have been in

MOTORCYCLE CARE AND STORAGE

contact with strong or abrasive cleaning products, solvent or thinner, fuel (gasoline), rust removers or inhibitors, brake fluid, antifreeze or electrolyte.

- Do not use high-pressure washers or steam-jet cleaners since they cause water seepage and deterioration in the following areas: seals (of wheel and swing-arm bearings, fork and brakes), electric components (couplers, connectors, instruments, switches and lights), breather hoses and vents.
- For motorcycles equipped with a windshield: Do not use strong cleaners or hard sponges as they will cause dulling or scratching. Some cleaning compounds for plastic may leave scratches on the windshield. Test the product on a small hidden part of the windshield to make sure that it does not leave any marks. If the windshield is

scratched, use a quality plastic polishing compound after washing.

After normal use

Remove dirt with warm water, a mild detergent, and a soft, clean sponge, and then rinse thoroughly with clean water. Use a toothbrush or bottlebrush for hard-to-reach areas. Stubborn dirt and insects will come off more easily if the area is covered with a wet cloth for a few minutes before cleaning.

After riding in the rain, near the sea or on salt-sprayed roads

Since sea salt or salt sprayed on roads during winter are extremely corrosive in combination with water, carry out the following steps after each ride in the rain, near the sea or on salt-sprayed roads.

NOTE: _____

Salt sprayed on roads in the winter may remain well into spring.

1. Clean the motorcycle with cold water and a mild detergent, after the engine has cooled down.

ECA10790

CAUTION: _____

Do not use warm water since it increases the corrosive action of the salt.

2. After drying the motorcycle, apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces to prevent corrosion.

After cleaning

1. Dry the motorcycle with a chamois or an absorbing cloth.
2. Immediately dry the drive chain and lubricate it to prevent it from rusting.
3. Use a chrome polish to shine chrome, aluminum and stainless-steel parts, including the exhaust system. (Even the thermally induced discoloring of stainless-steel exhaust systems can be removed through polishing.)

MOTORCYCLE CARE AND STORAGE

4. To prevent corrosion, it is recommended to apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces.
5. Use spray oil as a universal cleaner to remove any remaining dirt.
6. Touch up minor paint damage caused by stones, etc.
7. Wax all painted surfaces.
8. Let the motorcycle dry completely before storing or covering it.

EWA11130



WARNING

- **Make sure that there is no oil or wax on the brakes or tires.**
- **If necessary, clean the brake discs and brake linings with a regular brake disc cleaner or acetone, and wash the tires with warm water and a mild detergent. Before riding at higher speeds, test the motorcycle's braking performance and cornering behavior.**

CAUTION:

- **Apply spray oil and wax sparingly and make sure to wipe off any excess.**
- **Never apply oil or wax to any rubber and plastic parts, but treat them with a suitable care product.**
- **Avoid using abrasive polishing compounds as they will wear away the paint.**

NOTE:

Consult a Yamaha dealer for advice on what products to use.

ECA10800

Storage

EAU32640

Short-term

Always store your motorcycle in a cool, dry place and, if necessary, protect it against dust with a porous cover.

ECA10810

CAUTION:

- **Storing the motorcycle in a poorly ventilated room or covering it with a tarp, while it is still wet, will allow water and humidity to seep in and cause rust.**
- **To prevent corrosion, avoid damp cellars, stables (because of the presence of ammonia) and areas where strong chemicals are stored.**

Long-term

Before storing your motorcycle for several months:

1. Follow all the instructions in the "Care" section of this chapter.
2. Turn the fuel cock lever to "ON".

MOTORCYCLE CARE AND STORAGE

EWA10950



To prevent damage or injury from sparking, make sure to ground the spark plug electrodes while turning the engine over.

3. Drain the carburetor float chambers by loosening the drain bolts; this will prevent fuel deposits from building up. Pour the drained fuel into the fuel tank.
4. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel tank from rusting and the fuel from deteriorating.
5. Perform the following steps to protect the cylinders, piston rings, etc. from corrosion.
 - a. Remove the spark plug caps and spark plugs.
 - b. Pour a teaspoonful of engine oil into each spark plug bore.
 - c. Install the spark plug caps onto the spark plugs, and then place the spark plugs on the cylinder head so that the electrodes are grounded. (This will limit sparking during the next step.)
 - d. Turn the engine over several times with the starter. (This will coat the cylinder walls with oil.)
 - e. Remove the spark plug caps from the spark plugs, and then install the spark plugs and the spark plug caps.

°C (90 °F)]. For more information on storing the battery, see page 6-30.

NOTE:

Make any necessary repairs before storing the motorcycle.

6. Lubricate all control cables and the pivoting points of all levers and pedals as well as of the side-stand/centerstand.
7. Check and, if necessary, correct the tire air pressure, and then lift the motorcycle so that both of its wheels are off the ground. Alternatively, turn the wheels a little every month in order to prevent the tires from becoming degraded in one spot.
8. Cover the muffler outlets with plastic bags to prevent moisture from entering them.
9. Remove the battery and fully charge it. Store it in a cool, dry place and charge it once a month. Do not store the battery in an excessively cold or warm place [less than 0 °C (30 °F) or more than 30

Dimensions:

Overall length:
2190 mm (86.2 in)
Overall width:
815 mm (32.1 in)
Overall height:
1140 mm (44.9 in)
Seat height:
685 mm (27.0 in)
Wheelbase:
1490 mm (58.7 in)
Ground clearance:
145 mm (5.71 in)
Minimum turning radius:
2800 mm (110.2 in)

Weight:

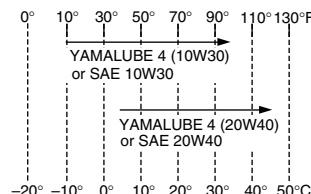
With oil and fuel:
XV250X 147.0 kg (324 lb)
XV250XC 148.0 kg (326 lb)

Engine:

Engine type:
Air cooled 4-stroke, SOHC
Cylinder arrangement:
V-type 2-cylinder
Displacement:
249.0 cm³
Bore × stroke:
49.0 × 66.0 mm (1.93 × 2.60 in)
Compression ratio:
10.00 :1
Starting system:
Electric starter
Lubrication system:
Wet sump

Engine oil:

Type:
YAMALUBE 4, SAE10W30 or SAE20W40



Recommended engine oil grade:
API service SG type or higher, JASO
standard MA
Engine oil quantity:
Without oil filter element replacement:
1.40 L (1.48 US qt) (1.23 Imp.qt)
With oil filter element replacement:
1.60 L (1.69 US qt) (1.41 Imp.qt)

Air filter:

Air filter element:
Wet element

Fuel:

Recommended fuel:
Unleaded gasoline only
Fuel tank capacity:
XV250X 9.5 L (2.51 US gal) (2.09 Imp.gal)
XV250XC 9.2 L (2.43 US gal) (2.02
Imp.gal)
Fuel reserve amount:
2.6 L (0.69 US gal) (0.57 Imp.gal)

Carburetor:

Manufacturer:
MIKUNI
Type × quantity:
BDS26 x 1

Spark plug (s):

Manufacturer/model:
NGK/C6HSA
Manufacturer/model:
DENSO/U20FS-U
Spark plug gap:
0.6–0.7 mm (0.024–0.028 in)

Clutch:

Clutch type:
Wet, multiple-disc

Transmission:

Primary reduction system:
Spur gear
Primary reduction ratio:
72/23 (3.130)
Secondary reduction system:
Chain drive
Secondary reduction ratio:
45/16 (2.812)
Transmission type:
Constant mesh 5-speed
Operation:
Left foot operation
Gear ratio:
1st:
37/14 (2.643)
2nd:
32/19 (1.684)

SPECIFICATIONS

3rd:
29/23 (1.261)
4th:
26/26 (1.000)
5th:
23/28 (0.821)

Chassis:

Frame type:
Double cradle
Caster angle:
32.00 °
Trail:
120.0 mm (4.72 in)

Front tire:

Type:
With tube
Size:
3.00-18 47P
Manufacturer/model:
CHENG SHIN/C-916

Rear tire:

Type:
With tube
Size:
130/90-15M/C 66P
Manufacturer/model:
CHENG SHIN/C-915

Loading:

Maximum load:
XV250X 196 kg (432 lb)
XV250XC 195 kg (430 lb)
(Total weight of rider, passenger, cargo and accessories)

Tire air pressure (measured on cold tires):

Loading condition:
0–90 kg (0–198 lb)
Front:
175 kPa (25 psi) (1.75 kgf/cm²)
Rear:
200 kPa (29 psi) (2.00 kgf/cm²)
Loading condition:
XV250X 90–196 kg (198–432 lb)
XV250XC 90–195 kg (198–430 lb)
Front:
200 kPa (29 psi) (2.00 kgf/cm²)
Rear:
225 kPa (33 psi) (2.25 kgf/cm²)

Front wheel:

Wheel type:
Spoke wheel
Rim size:
18x1.60

Rear wheel:

Wheel type:
Spoke wheel
Rim size:
15M/C x MT2.75

Front brake:

Type:
Single disc brake
Operation:
Right hand operation
Recommended fluid:
DOT 4

Rear brake:

Type:
Drum brake
Operation:
Right foot operation

Front suspension:

Type:
Telescopic fork
Spring/shock absorber type:
Coil spring/oil damper
Wheel travel:
140.0 mm (5.51 in)

Rear suspension:

Type:
Swingarm
Spring/shock absorber type:
Coil spring/oil damper
Wheel travel:
100.0 mm (3.94 in)

Electrical system:

Ignition system:
Transistorized coil ignition (digital)
Charging system:
AC magneto

Battery:

Model:
YB10L-A
Voltage, capacity:
12 V, 10.0 Ah

Headlight:

Bulb type:
Halogen bulb

Bulb voltage, wattage \times quantity:

Headlight:

12 V, 60 W/55.0 W \times 1

Tail/brake light:

12 V, 8.0 W/27.0 W \times 1

Front turn signal/position light:

12 V, 27 W/8.0 W \times 2

Rear turn signal light:

12 V, 27.0 W \times 2

Meter lighting:

14 V, 3.0 W \times 1

Neutral indicator light:

14 V, 3.0 W \times 1

High beam indicator light:

12 V, 1.7 W \times 1

Turn signal indicator light:

14 V, 3.0 W \times 1

Fuses:

Main fuse:

20.0 A

Signaling system fuse:

10.0 A

CONSUMER INFORMATION

Identification numbers

Record the key identification number, vehicle identification number and model label information in the spaces provided below for assistance when ordering spare parts from a Yamaha dealer or for reference in case the vehicle is stolen.

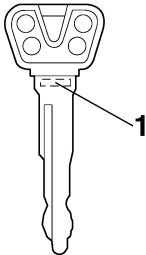
KEY IDENTIFICATION NUMBER:

VEHICLE IDENTIFICATION
NUMBER:

MODEL LABEL INFORMATION:

EAU26351

Key identification number

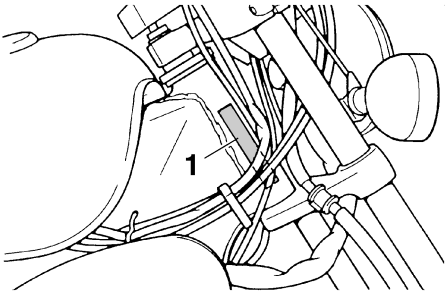


1. Key identification number

The key identification number is stamped into the key. Record this number in the space provided and use it for reference when ordering a new key.

EAU26390

Vehicle identification number



1. Vehicle identification number

The vehicle identification number is stamped into the steering head pipe. Record this number in the space provided.

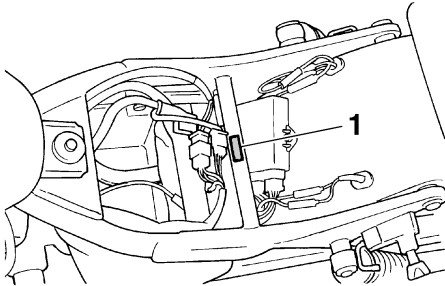
NOTE: _____

The vehicle identification number is used to identify your motorcycle and may be used to register your motorcycle with the licensing authority in your area.

EAU26400

EAU26470

Model label



1. Model label

The model label is affixed to the frame under the rider seat. (See page 3-8.) Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

CONSUMER INFORMATION

EAU26551

Reporting safety defects

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Yamaha Motor Corporation, U.S.A. If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Yamaha Motor Corporation, U.S.A.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to <http://www.safercar.gov>; or write to: Administrator, NHTSA, 400 Seventh Street, SW., Washington, DC 20590. You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

Motorcycle noise regulation

TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED:

Federal law prohibits the following acts or the causing thereof: (1) The removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use or (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

“AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE ACTS LISTED BELOW”.

These acts include tampering with the following systems; i.e., modification, removal, etc.

Exhaust system

- Muffler
- Exhaust pipe
- Silencer

Intake system

- Air cleaner case
- Air cleaner element
- Intake duct

CONSUMER INFORMATION

EAU26611

Maintenance record

Copies of work orders and/or receipts for parts purchased and installed on your motorcycle will be required to document that maintenance has been completed in accordance with the emissions warranty. The chart below is printed only as a reminder that maintenance work is required. It is not acceptable proof of maintenance work.

| Maintenance interval | Date of service | Mileage | Servicing dealer name and address | Remarks |
|--|-----------------|---------|-----------------------------------|---------|
| 600 mi (1000 km) or 1 month | | | | |
| 4000 mi (6000 km) or 6 months | | | | |
| 7000 mi (11000 km) or 12 months | | | | |
| 10000 mi (16000 km) or 18 months | | | | |
| 13000 mi (21000 km) or 24 months | | | | |
| 16000 mi (26000 km) or 30 months | | | | |
| 19000 mi (31000 km) or 36 months | | | | |
| 22000 mi (36000 km) or 42 months | | | | |
| 25000 mi (41000 km) or 48 months | | | | |

CONSUMER INFORMATION

| Maintenance interval | Date of service | Mileage | Servicing dealer name and address | Remarks |
|--|-----------------|---------|-----------------------------------|---------|
| 28000 mi (46000 km) or 54 months | | | | |
| 31000 mi (51000 km) or 60 months | | | | |

CONSUMER INFORMATION

EAU26663

YAMAHA MOTOR CORPORATION, U.S.A. STREET AND ENDURO MOTORCYCLE LIMITED WARRANTY

Yamaha Motor Corporation, U.S.A. hereby warrants that new Yamaha motorcycles will be free from defects in material and workmanship for the period of time stated herein, subject to certain stated limitations.

THE PERIOD OF WARRANTY for Yamaha motorcycles originally equipped with headlight, stoplight, and turn signals shall be one (1) year from the date of purchase, with no mileage limitation.

MODELS EXCLUDED FROM WARRANTY include those used for non-Yamaha-authorized renting, leasing or other commercial purposes, and TZ models.

DURING THE PERIOD OF WARRANTY, any authorized Yamaha motorcycle dealer will, free of charge, repair or replace any part adjudged defective by Yamaha due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the product's warranty period. All parts replaced under warranty become property of Yamaha Motor Corporation, U.S.A.

GENERAL EXCLUSIONS from this warranty shall include any failures caused by:

- a) Competition or racing use.
- b) Installation of parts or accessories that are not qualitatively equivalent to genuine Yamaha parts.
- c) Abnormal strain, neglect, or abuse.
- d) Lack of proper maintenance.
- e) Accident or collision damage.
- f) Modification to original parts.

SPECIFIC EXCLUSIONS from this warranty shall include parts replaced due to normal wear or routine maintenance.

THE CUSTOMER'S RESPONSIBILITY under this warranty shall be to:

1. Operate and maintain the motorcycle as specified in the appropriate Owner's Manual, and
2. Give notice to an authorized Yamaha motorcycle dealer of any and all apparent defects within ten (10) days after discovery, and make the machine available at that time for inspection and repairs at such dealer's place of business.

WARRANTY TRANSFER: To transfer the warranty from the original purchaser to any subsequent purchaser, it is imperative that the machine be inspected and registered for warranty by an authorized Yamaha motorcycle dealer. In order for this warranty to remain in effect, this inspection and registration must take place within ten (10) days after transfer. An inspection and registration fee will be charged for this service.

EMISSION CONTROL SYSTEM WARRANTY:

Yamaha Motor Corporation, U.S.A. also warrants to the ultimate purchaser and each subsequent purchaser of each Yamaha motorcycle covered by this warranty with a displacement of 50cc or greater, that the vehicle is designed, built, and equipped so as to conform at the time of sale with all U.S. emissions standards applicable at the time of manufacture and that it is free from defects in materials and workmanship which would cause it not to meet these standards within the period listed immediately below. Failures other than those resulting from defects in material or workmanship, which arise solely as a result of owner abuse and/or lack of proper maintenance, are not covered by this warranty.

| Engine Displacement | Period |
|---------------------|---|
| Under 50cc | 6,000 km (3,750 miles) or five years, whichever occurs first |
| 50cc to 169cc | 12,000 km (7,465 miles) or five years whichever occurs first |
| 170cc to 279cc | 18,000 km (11,185 miles) or five years, whichever occurs first |
| 280cc and over | 30,000 km (18,641 miles) or five years, whichever occurs first |

YAMAHA MOTOR CORPORATION, U.S.A. MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS AND TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY YAMAHA MOTOR CORPORATION, U.S.A. AND EXCLUDED FROM THIS WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. ALSO EXCLUDED FROM THIS WARRANTY ARE ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING LOSS OF USE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

YAMAHA MOTOR CORPORATION, U.S.A.
P.O. Box 6555
Cypress, California 90630

WARRANTY QUESTIONS AND ANSWERS

- Q. What costs are my responsibility during the warranty period?
- A. The customer's responsibility includes all costs of normal maintenance services, non-warranty repairs, accident and collision damages, and oil, oil filters, air filters, spark plugs, and brake shoes.
- Q. What are some examples of "abnormal" strain, neglect, or abuse?
- A. These terms are general and overlap each other in areas. Specific examples include: Running the machine out of oil, sustained high rpm, full-throttle, operating the machine with a broken or damaged part which causes another part to fail, damage or failure due to improper or careless transportation and/or tie-down. If you have any specific questions on operation or maintenance, please contact your dealer for advice.
- Q. Does the warranty cover incidental costs such as towing or transportation due to a failure?
- A. No. The warranty is limited to repair of the machine itself.
- Q. May I perform any or all of the recommended maintenance shown in the Owner's Manual instead of having the dealer do them?
- A. Yes, if you are a qualified mechanic and follow the procedures specified in the Owner's and Service Manual. We do recommend, however, that items requiring special tools or equipment be done by a Yamaha motorcycle dealer.
- Q. Will the warranty be void or cancelled if I do not operate or maintain my new motorcycle exactly as specified in the Owner's Manual?
- A. No. The warranty on a new motorcycle cannot be "voided" or "cancelled." **However, if a particular failure is caused by operation or maintenance other than as described in the Owner's Manual, that failure may not be covered under warranty.**
- Q. What responsibility does my dealer have under this warranty?
- A. Each Yamaha motorcycle dealer is expected to:
1. Completely set up every new machine before sale.
 2. Explain the operation, maintenance, and warranty requirements to your satisfaction at the time of sale, and upon your request at any later date.
 3. Each Yamaha motorcycle dealer is held responsible for his setup, service and warranty repair work.
- Q. Is the warranty transferable to second owners?
- A. Yes. The remainder of the existing warranty can be transferred upon request. The unit has to be inspected and re-registered by an authorized Yamaha motorcycle dealer for the policy to remain effective.

CUSTOMER SERVICE

If your machine requires warranty service, you must take it to any authorized Yamaha motorcycle dealer within the continental United States. Be sure to bring your warranty registration card or other valid proof of the original date of purchase. If a question or problem arises regarding the warranty, first contact the owner of the dealership. Since all warranty matters are handled at the dealer level, this person is in the best position to help you. If you are still not satisfied and require additional assistance, please write to:

YAMAHA MOTOR CORPORATION, U.S.A.
CUSTOMER RELATIONS DEPARTMENT
P.O. Box 6555
Cypress, California 90630

When contacting Yamaha Motor Corporation, U.S.A., don't forget to include any important information such as names, addresses, model, V.I.N. (frame number), dates, and receipts.

CHANGE OF ADDRESS

The federal government requires each manufacturer of a motor vehicle to maintain a complete, up-to-date list of all first purchasers against the possibility of a safety-related defect and recall. This list is compiled from the purchase registrations sent to Yamaha Motor Corporation, U.S.A. by the selling dealer at the time of your purchase.

If you should move after you have purchased your new motorcycle, please advise us of your new address by sending a postcard listing your motorcycle model name, V.I.N. (frame number), dealer number (or dealer's name) as it is shown on your warranty card, your name and new mailing address. Mail to:

YAMAHA MOTOR CORPORATION, U.S.A.
P.O. Box 6555
Cypress, California 90630
Attention: Warranty Department

This will ensure that Yamaha Motor Corporation, U.S.A. has an up-to-date registration record in accordance with federal law.

CONSUMER INFORMATION

EAU26750

YAMAHA EXTENDED SERVICE (Y.E.S.)

Keep your Yamaha protected even after your warranty expires with genuine Yamaha Extended Service (Y.E.S.).

- Y.E.S. is designed and administered by Yamaha Motor Corporation to provide maximum owner satisfaction. You get uninterrupted factory-backed coverage for extra peace of mind.
- Y.E.S. is flexible. You choose the plan that's right for you: 12 months, 24 months, 36 months or, on certain models, even 48 months beyond your warranty period.
- Y.E.S. is designed and administered by the same Yamaha people who handle your warranty – and it shows in the comprehensive coverage benefits. There are no mileage limitations. Coverage isn't limited to "moving parts" or the "drive train" like many other plans. And Y.E.S. covers manufacturing defects just like the warranty. See the sample contract at your Yamaha dealer to see how comforting uninterrupted factory-backed protection can be.
- You don't have to pay anything for covered repairs. There's no deductible to pay, and repairs aren't "pro-rated." You don't have any "out-of-pocket" expenses for covered repairs.
- In addition, Travel and Recreation Interruption Protection (TRIP) is included at no extra cost. TRIP gives you up to \$150 reimbursement per occurrence for any reasonable expenses you incur because your Yamaha needs covered service: replacement vehicle rental, emergency towing, phone calls, even food and lodging when you are away from home. This superb coverage goes into effect when you purchase Y.E.S., so it applies to any warranty repairs as well as covered repairs during your entire Y.E.S. plan period.
- Y.E.S. coverage is honored at any authorized Yamaha dealer nationwide.
- Y.E.S. coverage is transferable to a new owner if you sell or trade-in. That can make your Yamaha much more valuable!

This excellent Y.E.S. plan coverage is only available to Yamaha owners like you, and only while your Yamaha is still within the Yamaha Limited Warranty period. So visit your authorized Yamaha dealer to get all the facts. He can show you how easy it is to protect your investment with Yamaha Extended Service.

CONSUMER INFORMATION

We urge you to act now. You'll get the excellent benefits of TRIP coverage right away, and you'll rest easy knowing you'll have strong factory-backed protection even after your Yamaha Limited Warranty expires.

A special note:

If visiting your dealer isn't convenient, contact Yamaha with your Primary ID number (your frame number). We'll be happy to help you get the Y.E.S. coverage you need.

Yamaha Service Marketing

P.O. Box 6555

Cypress, CA 90630

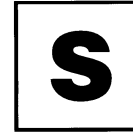
1-(866)-YES-EXTD (1-866-937-3983)



YAMAHA



EXTENDED



SERVICE

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